

FIGURE 1-A

>19:60156701-60251100

1	ctaaaaatac	aaaaaaatta	gctgggcaca	gtggtgaatg	cctgtaatcc	cagctacttg
61	ggaggctgag	gcaggagaat	tgcttgaatc	cgaggaggcag	aggttgtagt	gagccgagat
121	tgcagcactg	cactccagcc	agggtgacaa	agtgagactc	cgtctcaaaa	aaaaaaaaaa
181	aaaaWataca	aaaagtagct	gagcgtgggtg	gtgggtgccc	ataatcccag	ctagtcRgga
241	ggctgaggca	ggagaactgt	ttgaacctgg	gaggcagagg	ttgcagttag	ctgagatcgt
301	actactgtac	tccagcctgg	gctgcagagt	gaaactatct	caaaaaaag	taataaaaag
361	taaaatgagt	tgaggtcttg	ctctgttgcc	cagatgggag	tgCagtggca	caatcaaggc
421	tcaactgcagt	ttcagtctcc	caggctcaag	caatcctccc	actgcagcct	cctgagtagc
481	tgggactaca	ggcatgtacc	accaccct	gctaacttat	ttttcatgga	gatgggggtc
541	tcactatggt	gccagggctg	ggagtttggt	cttgaagaag	cagggtagat	ggtgagtgtc
601	cttggttcgtg	gcacagcagg	aactggcatt	tgagacagga	Stgctaatac	ccatccctct
661	ccactcctcc	cttgattgtc	atcacagctc	ccacgtggga	caagatgggtg	tcttcggcRc
721	agatgggctt	caacctgcag	gctctcctgg	agcagctcag	ccaggatgag	ttgagcaagt
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901	actgggtgga	gatggcgagc	ctccaggctc	ttgaaaagat	gcaccgaatg	gatctgtctg
961	agagagcaaa	ggatgaagtc	agaggtgagY	ggaaatcggt	ccacactgtg	tcctaggagg
1021	aagcaggcgt	cctctccagg	acttttagaaa	ttcagaaggc	caggcgcgct	ggctcacgcc
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1141	gaccagcctg	accaacatgg	tgatgaaaca	gcactcctac	taaaaataca	aaaatttgct
1201	ggacgtgggtg	gcagacacct	gtaatcccag	ctactccggg	aggetgaggg	aggagaatca
1261	cttaaatacta	ggaggcgggg	gttgctatga	gccgagatca	cgccattgca	ccccagcctg
1321	ggcaacaaga	gcaaaattct	gtctcaaaaa	aaaaaagaaa	tggcatttag	gcttggagag
1381	ggactgcttg	ttctgaatgc	aggtgctgga	tcttcataaa	ccctgggtgc	tgctcctggc
1441	cttattttct	acctaactct	ttttttttt	ttttttgtcc	ttttattttt	ttatttttta
1501	ttttattatt	attatttttt	ttattatact	tttaagtttta	gggtacatgt	gcacattgtg
1561	caggtttagtt	acatatgtat	acatgtgcca	tgctgggtgcg	ctgcaccac	taactcgtca
1621	tctagcatta	ggtatatctc	ccaatgtat	ccctccccc	tccccccacc	ccaccacagt
1681	ccccagagtg	tgatgttccc	cttctgtgtg	ccatgtgatc	tcattgttca	attcccacct
1741	atgagtgaga	atatcggtg	tttcttttt	tgttcttggtg	atagtttact	gagatgatg
1801	gtttccaatt	tcattccatgt	ccctacaaag	gacatgaact	catcattttt	tatggctgca
1861	ttgtattcca	tggtatatat	gtgccacatt	ttcttaatcc	agtctatcat	tgttgacat
1921	ttgggttggt	tccaagtctt	tgctattgtg	aataatgctg	caataaacat	acgtgtgcat
1981	tggtctttat	agcagcatga	tttatagtc	tttgggtata	taccagtaa	tgggatggct
2041	gggtcaaatg	gtatttctag	ttctagatcc	ctgaggaatc	cccacaccga	cttcacaaat
2101	ggttgaacta	gtttacagtc	ccaccaacag	tgtgaaagtg	ttcctatttc	tccacatcct
2161	ctccagcacc	tggtgtttcc	tgacttttta	atgatcgcca	ttctaaagtg	tgtagatga
2221	tatctcatag	tggttttgat	ttgcatctct	ctgatggcca	gtgatgatga	gcattttttc
2281	atgtgttttt	tggctgcata	aatgtcttct	tttgagaagt	gtctgttcat	gtcgttcgcc
2341	cactttttga	tgggttggtt	tggttttttc	ttgtaaatga	ttttctacct	atttctatcg
2401	ctttcaggta	tcgtacagtt	ggcctaacat	atctgtggat	tttaaccaatc	ctagatcaaa
2461	aataatgggg	gcaaagacaa	ttaaaaataa	caatacaata	aatgcacat	gaactatggt
2521	tatttaactc	ttcttgagag	aggatctcac	tctgtcaccc	aggctggaat	ttagcagcac
2581	gatctcggct	cactgcaacc	tccgcctccc	gggttcaagc	gattctcctg	cctcagcctc
2641	ccgagtagcc	gggattacaa	gcattgtccc	ccatgcctgg	ctgatttttt	tttttttttt
2701	ttttgtattc	taaatagaga	tgggttttca	ccatgttagc	caggatagtc	tcgatgtcgt
2761	gacctcatga	tctgcccgcc	tccgcctccc	aaagtgttgg	gattacaggc	gtgagccacc
2821	gcacccagcc	agcaagtgca	tttagaacta	ctctactttc	taccccataa	cttttttttt
2881	tgtttgtttg	agacaagtct	cactctgYca	cccaggatgg	agtgcagcag	cacaatctca
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3241	gcagccttga	cctcccagac	ttgagcaatc	ctaccactat	ggcctcccac	cacacctcgc
3301	tcattcttgt	atatatatat	attttttag	agatagggtt	tcacatgtt	gcccaggctg
3361	gtctcgaact	tctgtgggct	caaccgatcc	tcctgccttg	gcttcccaca	gtcctgggat
3421	cagaaacatg	agccacagtg	cctggccagt	gcagctttat	ttacagtaac	caagatatag
3481	agtcagctcta	agtaccatc	agtggatgaa	taaaaaatgt	gcccgttggg	tacctgtcct
3541	actgcctggg	ttatgagatt	tgtgggaccc	caagccttaa	aaaggaaaca	tggtaggcgg
3601	ggcacagtgg	ctcacgcctg	taatcacagc	actttgggag	gccaaggcgg	gtggatcact
3661	tgaggccagg	agtttgagac	cagtcaggcc	aatgtggtga	aacctgtct	ctactaaaaa

FIGURE 1-B

3721	tataaaaaaa	tcagccgggc	gtgggtggcac	actcctgtag	tcccagctac	ttggggaggct
3781	gaggcaggag	gattgcttga	accagagagt	cagaggttgc	agtgaagcaa	gatacgtgcca
3841	ctgcgctcca	gcctgggtga	cagcaagact	ccatctcaaR	aaaaaaaaac	aaacaaacat
3901	ggtattaatt	acacaatgga	atactcctca	accttaagga	actcctatct	ttttatttaa
3961	aaattgccag	ttttattttca	gctagagatc	acttttttagc	ataatgtttc	ctgtcttttaa
4021	caatgggtga	gggttttttt	tttttttttt	ttgggttgggt	ttggattttg	gttttgcctt
4081	tgagtcgaag	tttactctct	gtctcccagg	ctagagtgc	atggcgcgat	ctcggctcac
4141	tgtgacctcc	tcctcccagg	tttaagtgat	tctcctgcct	cagcctccag	agtagctggg
4201	attacaggcg	cctaccacca	tgcccgttaa	tttttgtatt	ttagtagaga	cagggtttta
4261	ccatgttgac	cagactgggtc	tcgaactccc	gacctcaggt	gatctgccc	cctcagcctc
4321	ccagagtgtc	gggattacag	gtgtgagcaa	ccatgcccgg	ccaaggggtt	ttaacttttag
4381	ctgacctccg	gaggttacaa	gtttgaaaac	ggcaggagga	aaccagaga	gtgttaaact
4441	tacgaaggtc	tgggtctctga	aaaagataca	aattttcttt	ccatgccaat	agcRctcaca
4501	cagacatggt	gaatgttcct	gaaacccgcc	ggactttctg	taagaagtgt	ggcaagcacc
4561	acccccacaa	agtacacaaa	ggcaaggatt	cttgggtatgc	ccaggggaag	tagtgttatg
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4681	ctacaaagaa	gattgtgcta	aggcttgagt	gccttgagcc	caactgcaga	tctaagaatg
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4921	tagtcccagc	tactcaggaa	gctgaggcag	gagaatcgct	tgaacctggg	aggcagaggt
4981	tgcagtgcag	caagattgtg	ccactccagc	ctgggcaaca	gagtgcact	ctgtctcaaa
5041	aaaaaaagat	gcaagcattt	tgaactggaa	ggagataaga	gaaaggaaca	agtgatccag
5101	ttctaaRtgt	catcttttct	tttatgaagg	caataaaatc	ttgagcttat	ggtaaaatgc
5161	aaaattttcc	ccccttctcc	tttttcagaa	gcagctttga	aatcctttaa	taaaaggaaR
5221	cctctatcat	taggtaagtt	accctattta	taacttttat	tcttcatgtg	agatctgggg
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6421	gtgagccacc	gcgcccggcc	cctgaagatt	gtgtttttgag	atggggctct	gctgtgttgc
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6541	gagatcctct	tacctcagcc	tcctgagtag	ctgggactac	aggtgtgcac	tgccacacct
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6661	ctcctggtct	caagtgatcc	tcccaccttg	gcctcccaaa	gtgctgggat	tacagacatg
6721	attcaccaca	cctggccatg	aagacttttt	tttttttgac	aaagtctcac	tctgttgccc
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6901	gcccagctaa	tttttgtaat	tttagtagag	atgggggtttc	accatgtttg	ccaggctgggt
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7021	tgtgagtcac	tgcgcctggg	ctcatgaaga	cctttttttga	gacagagtct	tgctctgtca
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7141	ttctcctgcc	ttagcctccc	aagtagctgg	gattacaggc	gcctaccacc	acgtctggct
7201	aatttttgta	tttttagtag	agacagggtt	tcacatgtt	ggccaggctg	gtctcaaact
7261	gctgacctca	aatgaactgt	ctgcctcagc	ctcaciaaagt	actgggatta	caggcatgag
7321	ccacctcacc	tgtgtgtgaa	gactctaaag	gctcttctca	gatcagcctt	tgtcctgaat
7381	ttcaccatgcc	cgtgtccagt	tccctcccca	gcactcttttc	aggagtcca	tggactcacc
7441	tcttcattat	ccagggttaa	gctgcagata	ttgttattag	gattccacct	tgttctctct
7501	cttttttttt	ttttttttga	tacggagtct	cgcttgctct	tttgccaggc	tgaagtgcag

FIGURE 1-C

7561	tggagcgatc	ttggctcact	gcaatctccg	cctcctgggt	tcaagcaatt	cccttgccctc
7621	agcctcgcaa	gtagctggga	cttacaggtg	acacaccacc	atgcccggt	aattttttgt
7681	tttagtagag	acggggcttc	accatgttgg	ccgggatggt	ctcgatctcc	tgacctcatg
7741	atccgcctgc	cttgccctcc	caaagtgttg	ggttacaggc	atgagccacc	atgcccggt
7801	gattccacct	tgttcttaca	ttctttccca	gttcatttta	aatttatcta	cctcatcaga
7861	aactaggggg	ttaggcctgg	caggcagatc	acctgaggtt	gggagttcga	gaccagcctg
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8161	ttatgcgtga	gtagtttgtg	tgtgtgtgtg	tgtgtgtgtg	tgtgtgtgtg	tgtctttcac
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8281	ggcctaattgt	actttcactt	ttacatccag	taccttatca	acgtcctttt	tagtacctaa
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8521	caggacctcc	aatgttggag	tcagctgagg	aagccccccg	ttcttgctgc	tatctcctgt
8581	tcctttgaag	aaccccatct	ctctccaatc	ttttcctcca	ctattcttaa	tgtgccact
8641	gtctcctgga	gaatgccaac	ctcccttccR	taagaataga	gggaagaacg	aacgttgacg
8701	agaattagaa	ctcagtttgt	agaaagttag	gagcacagcg	cagagagttt	ttgtttttgt
8761	ttttgttttg	agacagtttc	tctgtttggc	aggttggaat	gcaatggcgc	gatctcgggt
8821	cactgtaacc	tccacctccc	aggttcaagc	gattctcctg	attctcctga	ctcagcctcc
8881	tgagtagctg	ggattatagg	accctgccac	cacaccagc	taattttttt	tttttttttt
8941	gagacgaagt	cttgttcttg	tcaccagggc	tggagtatag	tggcaccatc	cctgttccact
9001	gcaacctccg	cctcccagat	tcaagtgtatt	gtcctgtctc	agcctcctga	gtagctggga
9061	ctacaggtgc	atgccaccac	gcccactaa	tttttttttg	tacttttagt	agagacaggt
9121	ttcaccatct	cattcagggt	ggtctcaaac	tctcgacctc	aagagatctg	ctcaccacac
9181	ccccaagtct	cccgaagtgc	tgggattaca	ggcgagagcc	accgtacctg	gccttcttta
9241	aattatttaa	aagttgacag	gtggccaggt	gtggtggctc	tcacctataa	tctcccagca
9301	ctttggggagg	ctgaggcggg	tggatcaaga	gatcgagacc	atcctggcca	acatggtgaa
9361	acccaactct	actaaaaaca	caaaaattag	ccgggtgttg	tggcaccgcg	ctgtagtccc
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9541	aaaaaaaaaa	aattgacagg	cataaatgta	tttatggtac	attgctcaga	caactttaat
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9661	gtgatagggt	ttttctgttt	tttttgtttt	tgaatatagag	tctcactctg	tcatgcaggc
9721	tggagtgcag	tggcccatc	ttggctcact	gcaatctctg	cctcctgggt	tcaaggggtc
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9841	cttttgtgtt	tttagtacag	atggggtttc	aacagggtag	ccaggttggt	ctagaactcc
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9961	accgcaccta	gcctgtgatc	agttttcagat	cagccttgct	tactccacat	tccctcttat
10021	cttctcggtg	gcatttttgt	tttttcttga	gaaagagttt	tgcccttgct	tcccagctga
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10141	gcctcagcct	cccagtagtc	tgggatcata	ggcgccacc	accacatctg	gctaattttt
10201	gcatttggtta	gttttatttt	tagtagacag	ggtttcacca	tgttgggcag	gctggtcttg
10261	aactcctgac	ctcaggtgat	ccaccacttt	cggcctccca	aagtgtctgg	attacaggca
10321	tgagccaccg	tacctagccc	acattgactt	ttgatacagc	aagtatttct	tgctatggct
10381	ctgtataata	gaggtgagta	acttgggtga	aggaattgtt	tgccctgttc	atctctctag
10441	acacggccaa	tgtcattcct	ggcacacaat	cttttttttt	cttgagatgg	agtcctactc
10501	tgttgccag	actggagtgc	agtgggtcaa	tcttggccca	ctgcaacctc	tgctaccacg
10561	gttcaagcga	ttctcctgcc	tcagcctccc	aaatagctgg	gagtaacagt	gtgtgccacc
10621	acgcccagct	aattttttgt	attttagtag	agacagggtt	tcaccgtgtt	agtcaggatg
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10741	ggcgtgagcc	acttgcccca	gcctagcaca	caatcttgac	aaagaatttc	ggtgcgactt
10801	ggggtactgt	ggtgcctgct	ctatcatcat	gcttcagcag	gaaatgtggg	tgaatagtgc
10861	ctggtggcat	ggcaggtaaa	gaaatgtttt	gttttgtttt	tttttttgag	acagtcttgc
10921	tctgtcacc	aagctggagt	cagtaggcgc	aatctcggct	cactgcaagc	ctcatctccc
10981	gggttcacgc	cattctgcct	cagcctcccc	agtagctggg	actacaggcg	cccgccacac
11041	gcccggctaa	ttttttgtat	ttgtagtaga	gacagggttt	caccgtgtta	gccaggatgg
11101	tctcgatctc	ctgaccttat	gatccaccgc	ccttggcctc	ccaaagtgct	gggattacag
11161	gcgtgagcca	ccgcgcccag	ccgcgggtaa	agaaatttat	gaagacaatc	gtaggtaaag
11221	gaaggcagat	ttattggaga	cagtaggaaa	agacattggc	agagagacct	cagcgggcag
11281	gttgtcatga	gtagctcact	gccaggagac	caaagcttcc	tgcagatttt	atagaatagg
11341	gcttgggctg	attgataatg	tcaacagggg	gtttaacttg	cggctcttct	tcagcagaag

FIGURE 1-D

11401	tgttttgataa	actgaggcgt	ttcatggcaa	acagggagtt	tgtgagctct	gtgtgtgatac
11461	tggccaggaa	ggccaaacat	cttgggcctg	atctcctgga	ccataaaaagc	agacctggcc
11521	cagtgcagtg	gttcatgcct	gcaatcccag	cacttttgga	ggctgaggtg	ggtggatcat
11581	ctgaggctcag	cagttttaga	ctggcctggc	caacatggcg	aaaccccatc	tctactaaaa
11641	atacaaaaat	tagcctagac	gcagtggcac	atgcctgtaa	ttccagttac	ttgggaagct
11701	gaggcaggag	aatcgcttga	acccgggagg	cggaggttgc	agtgagctga	gattgcgcca
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11821	ttcctcttgt	ttgtatgccc	tgaacctagg	aggaaagctt	atatttttat	tttattgaga
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11941	catctcccag	gttcaagcaa	ttctcgagcc	tcttggcctc	ccaagtagct	gagattacag
12001	gcatgcgcca	ccacgcctgg	ctaatttttg	cattttttagt	agagatgggg	tttctgtgtt
12061	ggccaggctg	gtctcgaact	cctgagctca	agtgatccac	cccacctcag	cctcccaaag
12121	ttctgggatt	ataggcatga	gccaccacac	ctggccggaa	aacacatttg	tagcttattt
12181	gctttatctg	atcccgtgcc	ccccctcccc	cccgcccat	cagcctgcct	ccttttctct
12241	aattgggact	ccacaggaaa	tacacctgat	tttgtgtcaa	tctcacatga	gtttgtattt
12301	tgtagcgttt	acagaaacga	aaggaaatgt	catctgcctg	ggtaaagaag	tctttaaagg
12361	aaaaaagcca	ggtctgtacc	atatcttctc	gcagggagct	tgggatcaga	tttctcttta
12421	taaacttgaa	gtcctcttaa	ctttcctatg	taacacaaag	cattttattta	tgtatgtatg
12481	tatcgagacg	gagttttgct	cttgttgccc	aggctggagt	gccgtggcgt	gatctcgact
12541	cactgcaacc	tccgcctccc	aggttcaagc	aattctcctg	cctcagcctc	ccgagtagct
12601	gggattacag	gcatgcgcca	ccatgactgg	ctaatttttt	atttttagta	gagacaaggt
12661	ttcttcatgt	tggtcaggct	gggttgtaac	tcccaatgtc	aggtgatctg	cctgcctcga
12721	cctcccaaag	ggctgggatt	acaggcatga	gccactgtgc	ccggccaaca	caaggcattt
12781	tgttattttg	gttttcctta	tgggtaactg	attgcatcct	ctctcccttc	cctcctcacc
12841	aatgataaag	acaaagacaa	taggtgcagg	tatatattga	agacgaagtt	ccgggagatg
12901	tggaagagct	ggcctggaga	tagcaaagag	gtccaggtta	tggctgagag	atacaagatg
12961	ctgaccccat	tcagcaaccc	cagggtgctt	ccggggccct	tctcatacac	ggtggtgctg
13021	tatggtcctg	caggccttgg	gaaaaccacg	ctggcccaga	aactaatgct	agactgggca
13081	gaggacaacc	tcatccacaa	attcaaatat	gcgttctacc	tcagctgcag	ggagctcagc
13141	cgcctgggcc	cgtgcagttt	tgcagagctg	gtcttcaggg	actggcctga	attgcaggat
13201	gacattccac	acatcctagc	ccaagcacgg	aaaatcttgt	tcgtgattga	cggctttgat
13261	gagctgggag	ccgcacctgg	ggcgctgatac	gaggacatct	gcggggactg	ggagaagaag
13321	aagccggtgc	ccgtcctcct	ggggagtgtt	ctgaacaggg	tgatgttacc	caaggccgcc
13381	ctgctggtca	ccacgcggcc	cagggccctg	agggacctcc	ggatcctggc	ggaggagccg
13441	atctacataa	gggtggaggg	cttcctggag	gaggacagga	gggcctattt	cctgagacac
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13741	ctcctggccg	cgcagggcct	gtgggcgcag	acgtccgtgc	ttcacccaga	ggaYctggaa
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13861	gacagagtct	ccaaaggctg	ctactccttc	atccacctca	gcttccagca	gtttctcact
13921	gccctgttct	acaccctgga	gaaggaggag	gaagaggata	gggacggcca	cacctgggac
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14221	tctcaggagg	aggagctggt	gaaggagggtg	atggctcagt	tcaaagaaat	atccctgcac
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14341	aaaattgtcac	tgcaggtaat	aaaggagaat	ctcccggaga	atgtcactgc	gtctgaatca
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14821	gattcaccat	gcccggccca	aatataatttt	tttaagacag	ggtcttgctg	tgttgctcag
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15001	tgggggtttt	tttttgtgtt	tttttttttt	tttttttttt	tggaaagaca	aaactcact
15061	atgttgtcca	ggctggtctt	gaaactcccaa	agcactgaga	ttacaggcat	gagttaccac
15121	acgccttgcc	tgaatatttc	ttattgatata	gtatagatat	gtatattccc	aatctttttt
15181	tttttttttg	agacggagtt	tcactctttt	tcccaggctc	gagtgaagtg	gctcgatctc

FIGURE 1-E

15241	ggctcactgc	aacctccgcc	ccaccaggtt	caatgattct	cctgcctcag	cctcatgagt
15301	agctgggatt	acagccaccc	acgaccatgc	ccagctaatt	tttgactttt	tagtagagac
15361	ggggtttcac	catgttggcc	aggcaggtct	cgaactcccg	acctcaggtg	atccacccgc
15421	ctcagcctca	caaagtgcta	ggattatagg	cgtgagtcac	cgtgcccggg	ctatattctc
15481	tatcttttat	caatgatgtg	cttagcattt	taacttattt	ttaccctcta	ttggattttt
15541	gtctaagaag	aataggttct	ttctcctgtg	atgcttcttg	ggtgttgagt	tgctgatgg
15601	tgggtgcta	aagtgattac	atggtccagc	tttcaattgt	actcatttgt	caggggtata
15661	tgcccagaga	aaccttaaat	acttcagccg	tgatggacac	acatttggtg	taaccttttc
15721	ttctcttccc	tatagatccc	aggatgatca	gcacatgctt	cctttctgga	cggacctttg
15781	ttccatattt	ggtacaaata	aggatctgat	gggtctagca	atcaatgata	gctttctcag
15841	tgccctcccta	gtaaggatcc	tgtgtgaaca	aatagcctct	gacacctgtc	atctccagag
15901	agtgggtgtaa	gtagaaacta	attcatgaac	tcaaatacctt	agggatatgaa	aatgggtacaa
15961	tgттаacatc	ggagcaatat	tcagattcct	gtactagact	cttaagtgtc	cgagacacag
16021	ggaattgaga	gagtcctgtc	cttaaattta	ttttgtggga	taatcgtata	aagtaatttc
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16141	cagatcactt	gaggtcagga	gttcgagacc	agcctggcca	acgtgacaaa	accctgcctc
16201	tactaaaaat	acaaaaatta	tccaggcgtg	gtggcaggca	cctgtaatat	cagctacttg
16261	ggaggctgag	gcaggagaat	tacttgaacc	caggaggcgg	aggttgagc	gaaccaagat
16321	cctgccactg	gactccagtc	tgagtgcagc	agcgaRactg	cgtctcaaaa	aaaaaaaaaa
16381	aaaaaaagaa	aaagaaaaaa	agggccgggc	acaatggctc	acgcctgtag	tcccagcact
16441	ttggggggccc	aaggtggggg	gatacattga	ggtcaggagt	tcaagaccag	cctggccaag
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16561	cctataatcc	cagctactcc	ggatgctgag	ggtaggagtc	gcttgaatcc	gggaggcaga
16621	gtttgctttg	cagtgcgccc	agatcgcgcc	actgcactcc	agcctgggca	acagagtgcg
16681	actccatctc	aaagaaaaaa	aaaatctgtc	aagatggaca	aaaatttaaa	catggaaaaa
16741	atagttccta	aagtttaaat	atatcgagcc	cctgggtttcc	atttaagtac	gatacagggtg
16801	tacacactaa	agatttcact	ttcgttctct	ttccctagag	ttcaaaaaaa	tttccccagc
16861	tgatgctcat	cggaaacctct	gcctagctct	tcgaggtcac	aagactgtaa	cgtatctgac
16921	ccttcaaggc	aatgaccagg	atgatatgtt	tcccgcattg	tgtgagggtc	tgagacatcc
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17101	cgtcactagaa	acagtactaa	ggcagatgta	cccaggatgc	agcatgggct	gaacttgagt
17161	ttcYacttgc	cttgaacagt	aaacacctgc	gacaaccata	cgtgaggacc	ctgaatccaa
17221	agaaactccc	agaatcttta	tcatcttttt	tttttttttt	atgRagtctt	gctctgttgc
17281	ccaggccaaa	gtgcaatggc	acgatcttgg	ctcactgcaa	cctctgtctc	ctgggttcaa
17341	gtaattctgc	tgccctcagcc	tcccaggttg	ctgggattac	aggcaccgcg	caccacggcc
17401	ggctaatttt	tgtgcattta	gtggagcttg	tttcgccaca	ttgccaggct	ggctcggaac
17461	tcatgacctc	aggtgacctg	ccctcctcag	gctcccaaag	tgctgggatt	ataggcatga
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17881	agcccagaat	ctttatcttc	tatcagagat	cattcactca	tggttcatgc	ttctcctgta
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18421	actgtctcaa	aaaaaaaaaa	aaaaatcttg	gctgggtgcg	gtagctcatg	cctgtaatcc
18481	cagcactttg	ggaggccaag	gcagggtgat	cacaaggtca	ggagttcaag	accagcctgg
18541	ccaacatggg	gaaacccac	gtctactaaa	aatacaaaaa	cattagctgg	gcattgtggc
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18661	aggcagaggt	agcagtgcgc	caagatcacg	ccattgcact	ccagcctggg	caacagagca
18721	aaactccatc	tcgaggacag	aaaaaaaaatt	gattgctctg	gctctactga	tacaatctta
18781	ggctgcttaa	tgggatctta	gttgaaatag	atgctgtaca	tcttacaggt	attggaaggt
18841	tgaatgaaac	caagcccatg	cattcaatag	tggctgctat	cattactaac	cgttgcaatt
18901	accctctttt	ctttttgcct	gagaataatg	ggatgcaggg	tgagggggaa	tattgggtga
18961	attaaagatt	tgggtcacta	atttctttct	ttttttctca	agatatagtc	ttgctctgtc
19021	tcctaggctg	gagtgcagtg	ccacaatctt	ggttcactgc	aacctctgcc	tcccgggttc

FIGURE 1-F

19081	aagtgtattct	tctccgtcaa	cctcccaagt	agctgggatt	acaggcacc	acctgtattt
19141	ttgtatttct	agtattttgt	atttctagta	gagacagggt	tacgccatgc	tgggtggccag
19201	ggtggtctca	aactcctgac	ctcgggcaat	ccaccacacc	cagctaattt	ttggtatatt
19261	tagtagagcc	gggggtttcac	cgtgttggct	gggctggtct	cgaactcctg	acctaagtgt
19321	acatccatct	tccaaaatgc	tgggattaca	gccatgtgcc	accacgcccc	gctaatttct
19381	gtatttttag	gagaaatggg	gtttcatcat	gttgttccgg	ctggtcttaa	actcctggcc
19441	tcatgatcca	cctgccttgg	cctgccaaaag	tccctgggatt	acaggcatga	gccactgtgc
19501	ccagccactc	atttcttatg	aattttattct	aacacatttt	ccggatgaac	agggcacctt
19561	gaaacatagg	ttagtgggct	gggtatggtg	gctcctgcct	gtaatcccag	tactttggga
19621	ggcctaggct	ggtgtatcgc	ttgaagtacg	gagttttttg	ttttgagacg	gagtcttgct
19681	ctgtcgcccc	ggctagagtg	cagtggagtg	atctcggctt	actgcaacct	ccgcctcctg
19741	gtttcaagtg	attctcttgc	ctcagcctcc	tgagttagctg	ggactacagg	cacgtgtcgc
19801	cacgcccac	taacttttgt	atgttttagta	gagccgggggt	ttcaccatgt	tggccaggat
19861	ggtctcaaac	tcctgacctc	ctgatctgcc	cacctcggcc	tcccaaagtg	ctgggattac
19921	aggcatgagc	cattgccccg	gccaaagtta	ggagtttgag	accagcctgg	ccaacatggt
19981	aaaaccccat	ctctactaaa	aaatacaaaa	attagccagg	caagatggga	tttgctgta
20041	atcccagcta	ctcaggaggc	tgaggcgga	gaatctcttg	aatctgggag	gcagagggtg
20101	ctgtgagctg	agatcgcgcc	actacactcc	agccaggggcg	acagagcata	aataactccc
20161	tttcaaaaaa	ccaaacaatg	aaacataggt	tagcggagtc	tgcatccaac	attagagtca
20221	gattgactaa	gttctgtatt	tccagctgat	tcctgggcca	tggttggtgcc	actggtctga
20281	ccaccctttg	acaactgctg	ctccagataa	ttcaagtcgg	ggtataaac	aaccagttag
20341	atgtaaacca	aagacgattc	cagggttaga	ttctcaagaa	tgacttgttc	tgccggggcg
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20521	aaattagctg	ggcatgKtg	tgcatggtgc	atgcctgcag	tcccagctac	tcggggaggct
20581	gaggcaggag	aatcacttga	accacaggag	cggaggttgc	tgtgagccga	gattgcRcca
20641	cctggggcaac	aagagtga	ctcagcttca	aaaaaaaaaa	aaaaatgacg	tgctcctatt
20701	tctcccacag	gttgggtgtc	tgttccgcta	ccactcagca	gtgggctgat	ctctccttgg
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20821	agggtgctaa	gttgctgtac	acaactttga	gacaccccaa	gtgctttctg	cagagggttg
20881	cgtaagtctc	tcctctcttM	cagagcagct	gtgcttttga	tctggggcca	cagacgagca
20941	atggctatgc	ctgacttggc	tgatggaac	ctctcgctga	tgtagaaccc	tgttcccatg
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21241	tgttggttgt	cagccgggag	ctgacacacc	tggtcttggc	caagaacccc	attgggaata
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21361	tgtaagtccg	tgctggctgc	ctgtgtgcgt	gggtgtatat	gcacacgccc	cccacctccg
21421	ggtttgagta	gggtggttat	gagaacactt	aattcctcta	aaagtcccaa	gcatgatgct
21481	aatgacaact	ggtaagacct	gggtagatga	tggtaggaaa	aaagtataag	tagtagtaga
21541	gtatagtaga	tattctatag	ggttttgggg	aatgtagctg	gttttccgggt	tttttttttc
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21721	atgagccatg	tcaccccatg	ctgtgttttc	tcttaatctg	tgttcttaga	actataactg
21781	taacataaat	tgcaYgcaat	tggttgtaaa	tggaattcat	ttactttatt	tttaatgaat
21841	gatttgcaaa	tcaggtagtc	ttctgggcca	gtgtacgctc	agactcccaa	tggagcttat
21901	tggaagctac	atgctcaatg	tgatcctcct	Kttaatacta	aaatcacagg	acacgtggcc
21961	tggcatagtg	gctcacgcct	ataatcccat	caccttgagg	ggccgaagca	aggcagatcc
22021	cttgagggca	ggagttcaag	accagcctgc	ccaacatggt	gaaacattgt	ctctctacta
22081	aaaatacaaa	aattagtcac	gcatggtggg	acatgcctgt	aatcccagtt	actcaggagg
22141	ctaaggcagg	agaatcactt	gaacttSgga	gggtggaggt	gcagttagct	gagatggcac
22201	cactgaagtc	cagtctggcc	aatagagcaa	gactctctca	aaaaaaaaaa	attataggac
22261	aaatcttttag	aaaggaattg	gggcctggca	tggtggctca	tgccctgtaat	ctcagcactt
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22381	aaccctgtct	ctactaaaaa	tacaaaaaatt	agctaggcgt	gggtggtatgg	tcctgtaatc
22441	ccagctactt	gggaggctga	ggcaggagaa	tcgcttgaag	tcgggaggtt	gcagtgagcc
22501	gagatcgtgc	cagcctgggt	gacagaacga	gattgtctca	aaaaaaaaaa	aaaattgtat
22561	ctgcactgat	ggtttctgtt	cagagattcg	attttatgtt	aacatctctg	gtattttttt
22621	tttttttttt	taagatggag	ttttactctt	gccccYgctg	gcaatggcat	gatctaggct
22681	cactgaaccc	tccggcttca	aggaggttga	ttctcctgcc	tcagcctcct	gagtagctgg
22741	gattacaggc	actcaccacc	acgcgggct	aatttttata	tttttagtag	agatgggatt
22801	tcacatgtt	ggccagggtg	gtctcgaact	gacctcatga	tccgcccggc	tcagccttcc
22861	aaagtgctag	gatttacagg	catgagccac	tgctgccagc	catacatatc	tctggtattc

FIGURE 1-G

22921	tttgtctcta	acatcacctc	caacagttag	gaactgtcct	cttcctatga	agtaactaat
22981	ctaggatatg	tacctggcat	ctgaaaaacta	cccacttaaa	tttaatgaca	tattcagttc
23041	atggctggag	acgatgagta	gaaggaaagg	attcttccca	caccactat	atctaggccc
23101	tgaacaYta	aaaaagaagt	cccacaagca	gtgagatgtc	accgactcac	taactgtatc
23161	ttcaaataaa	tgtctagttt	ttttggttgt	gtgtgtgtgt	ggtgtgtggt	gtgtgtggta
23221	tttttttggg	gggggggggg	ttttcttttt	tttttttttt	tggttttttt	tttttgatag
23281	tcttgctctg	tcgcccaggc	tggaaatgcag	tggctccatc	tcagctcact	gcaacctcca
23341	cctcctgagt	tcaggtgtga	ttctcctgcc	tcagcctccc	agggattaag	gtgcatgcca
23401	ccaYgccag	ctaacttctt	tatttttagt	agagacgagt	tttcacatg	ttgtcaagc
23461	tggctctgaa	ttcctgacct	caggtgatcc	acccacctca	gcctcccaaa	gtgctgggat
23521	tacaggtgtg	agccaccgtg	cgggccccct	caattcaact	ttttgatcca	tgccccattt
23581	ttgctaagtt	gtcaacttcc	cttttagtctt	atgtgggttt	tcctccatta	cagtcattgga
23641	agttttctaga	aggccgggta	gggtctttga	gaggccgagg	caggtggatc	atgaggtcag
23701	gagttcaaga	ccagcctggc	caacatggtg	aaaccctgtc	tttactaaaa	atacaaaaat
23761	tagccaggcg	tgggtgctga	gcctgtaatc	ccagcttact	tgggagggtg	aggcagagaa
23821	ttgcttgaac	ctgggaggcg	gaagttgcag	tgagctgaga	ttgtgccact	gtactccagc
23881	ctgggtgtca	gagcgagact	gtctcaaaaa	aaaaaaaaaa	aaagtttcta	tacattcata
23941	aagtttcaag	atttgggggt	gtgtttttcac	ttctccatcg	tcattggactc	caatctgcca
24001	tctatttcca	aggcccttcc	aggtcctgtg	tcctcagct	agtggatgc	ttcacttggg
24061	acccagagat	acatgggcat	tatagttcaa	attataatta	agtttagaac	tcatttgaga
24121	cagaagaaag	aaaacagagc	taagttgaaa	tatctctgat	aatctgtgtt	ggtaatatc
24181	taggatccta	gtaccagata	tgttgagtg	tgagctgggt	tcttctgcct	gttaagacact
24241	acctctctag	caactgaatt	tagcaaatac	aatcgtaatc	ccagcaYgtt	agggaggcca
24301	gggtgggcag	atcatctgag	gtcgggagtt	caagaccagc	ctggccaaca	tggggaaacc
24361	ctgtctctac	taaaaataca	aaacttagct	gggtgtgggt	gcacgcgcac	gtgtgtacac
24421	acacacaccc	ccctgtaatc	ccagctactc	ggaaggctgg	ggcacaagaa	tcgctgaaM
24481	ccaggaggcg	gaggttgaa	tgagccaccg	tgccagctga	gaatcctttt	tacttctcca
24541	acttctgttg	gccacctgca	ttccttggct	tgtggccctt	cctccaactt	cRgcagagca
24601	tcttcaaacg	ttgccctggc	tccttatca	cgtaacctcc	tgctggcttt	gactctcagc
24661	tcctctttat	gaggatccct	gtgattgctg	gacctacca	aataaaccag	gatataaacc
24721	atcttaagat	gctcagtcac	ctctacgagg	tcctttttgc	tcgcagggtg	caggagtgtg
24781	actgttgaca	tctttagggg	agtcattctt	tctgtccacc	acaccacccc	gatttccat
24841	ttccatgtca	ccactgtctc	taagtgtgtc	taacccaYgg	ctcaagagtc	aaaggtgcat
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24961	ttggaactgc	gacataacta	gcgatggctg	ctgcgatctc	acaaagcttc	tcaaagaaaa
25021	atcaagcctg	ttgtgtttgg	atctggggct	gaatcacata	ggagttaagg	gaatgaagtt
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25141	ataagttcaa	cttctctata	ttacacctta	ctgaatctgt	ggctagtgtg	aaataatcag
25201	tgaagcogac	ttcccaagtt	atataattga	gaggaccttt	atagagtcca	tcgagcattt
25261	actaggatgg	ttaaaggaa	aagttctagt	ctatgtctaa	gtttttgttt	ttttttttct
25321	tgaagttttg	ctcttgtcac	ataggctgga	gtgcagtggc	gtgatcttgg	ctcactgcaa
25381	cctccgcctc	ccaggttcaa	gcaattctct	tgcttcagct	tcccagtag	ctgggattac
25441	aggcgcccg	caccatgccc	agctaattct	tgtattttta	gtagagacag	ggtttcgcca
25501	tgttgaaagt	tcattctcaa	ctcctgacct	caggtgatcc	gcccattctg	gcctcccaaa
25561	gtgctgggat	tacaggcggt	agccactgcg	ccaggcccta	tgtctaagtt	ctagtctgtg
25621	tcattgcaaa	aacacctgtg	aaattttaag	gatacagtg	ctcaagccat	tcagccaaaa
25681	gccactgccc	agcaccacc	attcagagag	gtgggaattg	ggccaggcac	agtggtccat
25741	acctgtaatc	ccagcacttc	gggaggccga	agcgggcgga	tcacttaagg	tcaggagctc
25801	aagaccagcc	tggccaactt	gaaactccat	ctctactaaa	atataaaaa	tagccgagca
25861	tagtagtggt	tgcccttttt	tttttttttt	ttttttttga	gatagtttca	ctcttgttgc
25921	ccaggctgta	gtgtaatggc	gcgatctcag	ctcactgcaa	cctccacctc	ctgggttcaa
25981	gtgattctcc	tgcccttagcc	tcaccacatag	ctgcaaatata	acaggcatgt	gccaccatgc
26041	ctggctaatt	ttgtattttt	agtatagacg	gggtttctcc	atgttgggtca	ggctggtctc
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26161	tacttgggag	gctgaggcag	gagaatcact	tgaaccctgg	aggcagaggt	tgcagtggagc
26221	tgagatcctg	tcactacact	ccatctggg	ctacaagagc	aagactccat	ctcaggaaaa
26281	aataaaaaag	aggtaggaat	tagatatcgt	gccagaaaa	gctggctcta	tcagcaggtg
26341	agtggtctca	acttggtctat	cttacaatM	ccttgtgagt	tagctacaat	cagatgcact
26401	tgaacctgga	atcctatctg	ggaggcaatc	ttaaaagaat	ttgactcggg	atgggcaagg
26461	tggctcatgc	ctgtaatcct	ggcatttttg	gagtcacaag	caggtagatt	gcttgaggcc
26521	aagaatttaa	aaacagcctg	tccaaccata	tgaagccctg	tctctactga	aagtacaaaa
26581	atccgctgag	catggctgtg	tacctctgct	cccagttact	caggaggctg	aggtggggag
26641	atcacttgag	cctgggagga	agaagttaca	gcgaattgag	atcacgtcac	ctcactccag
26701	cctgggtgac	agtgagatcc	tgtctcaaaa	aaaaaaaaaa	aacaaaaaaa	acaaaggcgc

FIGURE 1-H

26761	ctttttaatc	actcactgac	acgtgtagag	gagcaaaaaag	tttgagttgc	tggttggccc
26821	aggaggtcaa	ggctgcagtg	agccaagatg	gcgttaccac	actccagcct	gggcaaccga
26881	gtgagaccgt	gtttcaaaaa	ataaagtggc	aggggtgcagt	ggctcatgcc	tgtaatcca
26941	gcactttggg	aggccgaggc	aggtggatca	cctaagggtca	ggagttcgtg	gaccagcctg
27001	tctctactaa	agagacaggt	gaaaccctgt	ctctctaaaa	ccacaaaaat	caggcRggca
27061	tggtaggcaca	tagctataat	ctcatctact	tggaggcacg	agaactgctt	gaatccagga
27121	ggcagaggct	acagtgcagc	gagatcatgc	cacagcactc	cagccctggc	gagagagcaa
27181	gactgtctca	aagaataact	tcaaagatgg	aagttattta	acctctctgc	tcaaaagcct
27241	cagtgcctcc	ctatgtcaat	ccaggtaaaa	tcctatatgt	acgatggctt	cagggtcttc
27301	tgtgagctgg	ccactgctta	cctatgacct	catcttgaca	atcctccctg	tctactcat
27361	gcccgtctgc	tggatgttct	attttacgtg	tcagtcacat	gtatcttcag	ggcctctgca
27421	caagctatct	ctctgcctgg	agaactcccc	cccagactct	atgactcgtt	ctcttcaccc
27481	cctcacctcc	aaccattgta	gccagaaccc	ccagttattc	cctgtacccc	ttgcccttca
27541	gaaccctcca	tcgcctccat	attttcctgt	tagcagatga	gccctgaggg	cggagacgtt
27601	ttgtttgttt	tttgagaccg	gagtcctcact	ctgtcaccca	ggctggagtg	caatggcgcg
27661	atctcggtcc	actgcaacct	ccgcctcctg	ggttcaagcg	attctcctgc	cccagcctcc
27721	tgagttagctg	ggattacagg	tgctgtcaca	cacgcccagc	taacttctgt	atatttagta
27781	gagacacggt	tttaccatgt	taggttggtc	ttgaactcct	tgacctcagg	tgatccatcc
27841	acctcggtcc	cccaaagtgc	tgggattaca	ggcRtgaacc	accgtgcccg	gcctgagact
27901	tctgttggtc	atgcagatcc	ccaacacacg	aggggtgggct	tggcttgccg	gagggcatcg
27961	atcagcactg	gctgcattaa	cgtgttgatt	tctgtgtttc	cccaggttgt	gggatgtttc
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28201	aggctttctc	cagagtggta	ggtttagggg	aagcataatg	acatggacct	gctgtaggag
28261	actgatctgg	tagctggatt	acaggttccc	gccatcacac	ccagccaatt	tctgtatttc
28321	acttggagaa	acggggtttc	acatgtttgg	tcaggctggt	ctcaaaactc	tgacctcagg
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28741	agtctcactc	tgttgccag	gctggggtgc	agtggttgct	aactgcaacc	tccacctccc
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28861	ccacacctag	gtaatttttg	tttttttagt	agagacaggg	ttttgccatg	ttggccaggg
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29281	tttggggtgc	atcttttttc	tttttttttt	ttttttttcc	tttttttttt	tttttttttt
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29401	tggagggaag	gtcagcagat	aaacaagtga	acaaaggtct	ctggttttcc	taggcagagg
29461	accctgcggc	cttcgcgagc	gtttgtgtcc	ctgggtactt	gagattaggg	agtgtgatg
29521	actcttaacg	agcgtgctgc	cttcaggatc	tgtttaacaa	agcatacttt	gcaccgacct
29581	taatccgttt	aactctgagt	ggacacagca	catgtttcag	agagcacggg	gttgggggta
29641	aggtcacaga	tcaacaggat	cccaaggcag	aagaattttt	cttagtacag	aacaaaatgg
29701	ggggctgacc	ccccacctc	cctcccggac	agggcggtcg	gccggttaga	ggggctcctc
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29821	tgggcggggg	gctgaccccc	ccacctcccc	gcccgccag	agttttactc	ttgttgtcca
29881	gcctggagcg	caatggcgct	atctcggtct	actgcaacct	ccgcctcccg	ggttcaagag
29941	gttctcctcc	ctcagcctcc	caagtagctg	ggactacagg	catgtgccac	caacacctggc
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30121	ccaccatgcc	tggcctgcat	ctcctctgtt	taactggtac	tccgggggtc	actgagtaga
30181	agttgccaaa	gtgggtgata	gagcgggtaa	gcaggtatta	gagctatagc	ccagctgtac
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30361	aataagagga	atgaaaaaaa	cgattaaaaa	gagaaaatgaa	agtctttaat	attacatttt
30421	attattttact	tcattttatt	tttagacaaa	aatctcactc	tattgtctcag	gctggagtgc
30481	aggggcccga	tctcagctca	ctgtaacctc	cgctcccag	gttcaagtga	ttctcctgtg
30541	tcagcttcct	gagtagctgg	gattataggg	atgcaccatc	acacccaact	aacttttata

FIGURE 1-I

30601	tttttagtag	agatggactt	tcaccatctt	gcctaggctg	gtctcaaact	cctgacctca
30661	agtgatctgc	ccacctcact	ctcccaaatg	gctggcatta	caggcatgac	ccaccacatc
30721	tggcctcatt	ttatatTTta	aaataaaaaa	taagcaaata	aagccaggta	cagtttaggc
30781	aacatggtaa	aaccccaact	ctactaaaaa	tacaaaaatt	agctgagcat	ggtggcaggt
30841	gcctgtagtc	ccagctactc	gggaggcaga	ggataggatg	gcttgaaccc	aagaggcaca
30901	ggttgagtg	agctgagatg	gtaccactgc	actccagctt	gggcaacaga	gagactgtct
30961	tttttttttt	tttttttttt	tttttttttt	ttttttttga	gatcgcccag	gctggagtac
31021	agtggcacga	tctcggctca	ctgcaagctc	cgcctcccgg	gttcacacca	ttctcctgcc
31081	tcagcctcct	gagtagctgg	gactacaggc	gtccgccacc	acgcccggtc	aattttttgt
31141	atttttttag	tagagacagg	gtttcacctg	gttagccagg	atgggtctga	tctgctgacc
31201	tcgtgatcca	cccgccctcag	cctcctaagg	tgctgggaat	tacaggcRtg	agccatcacg
31261	ccccacctga	gactgtcttt	taaaaaaaa	aaaaaaaat	caatgtggaa	cactcctttg
31321	ccacctagaa	taatcaggaa	aggtgaccca	tgccctgtgc	ctccttaaca	gactttcagg
31381	tacttgggaa	tttgaacaaa	atctccttga	tgcaaaaagt	aaccttttct	ttccccattg
31441	taccccgagt	tgaaaatMga	tgactttaat	gatgaactca	ataagctgct	ggaagaaata
31501	gaagaaaaaa	accacaact	gattattgat	actgagaaac	atcatccctg	ggMagaaagg
31561	ccttcttctc	atgacttcat	gatctgaatc	cccccgagtc	attcattctc	catgaagtca
31621	tcgattttcc	aggtgtKgg	gaactgcctg	tgactcctct	cctccccSgc	ccctaccctt
31681	cagggataat	gagttcattg	ctgggctaga	tgtttttagcc	atgattctgc	ctctgtttta
31741	tacctgcaca	cRtcttatc	tttgttacat	atgaaatatc	tgtatcacgg	gtatattgag
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32161	atttttaata	gagatgaggt	ttaccactgt	tgccagctct	ggtctcaaac	ctctgacctc
32221	aagtgatcca	cccacctcag	cctcccagag	tgctgggatt	acaggcatga	gccactgtac
32281	ccggcttttt	tttttttctt	tttctttttc	ctcaagcatg	agtgttgctc	tggtgccag
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32761	aatctcggcc	aggcacgggtg	gtcacacact	gtaatcccag	cacttcggga	cgtgaggtg
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32941	gggaggctga	ggcaggagaa	ttgcttaaac	ccaggagggtg	gatgttgcac	tggtctgaag
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33061	atctcatggt	atgcataggt	tttccactata	gagctcccat	tatttctctg	tgatcacgaa
33121	ttccaaattc	aacaaagcag	cagtgcagac	tctacgctgt	aaaaccacaa	acaaacgaa
33181	ctgtactata	aagacaacac	tagttggcaa	agttgcttct	catggggaga	ctttgttgct
33241	gtctgtgttt	actggatgag	caaacaatg	gacggtaagg	gggaaaaaga	acagtacaaa
33301	tttttattaa	acactaatca	tgtttttttt	tgttttgttt	gagacagttt	cttctgtttg
33361	cccaggctga	agtgcattgg	cacgattttg	gtcactgca	acctccgctc	cccgggttct
33421	aagcgattct	cttgcctcga	cctactgagt	agctgggatt	ataggcatgt	gccaccaagc
33481	ctggctaatt	ttgaattttt	agcagagacg	gggtttttcc	atgttggtca	ggctggtctc
33541	gaactcccga	cctcaggtga	tccaccagcc	ttggtctccc	aaagtgtctg	gattacaggt
33601	ataagtcacc	gcacctggca	acattttttt	cttttttttt	tttttttttt	tttttttttt
33661	tggtggcaga	atcttgctct	ttcaccagg	ctggaatgca	atggcacgat	ctcgggtcac
33721	tgacgcctcc	acctcccag	tttaagcagt	tctcccatct	cagcctccca	tgtagctggg
33781	accacagggtg	tgaccactg	caccaggtga	atttttgcac	ttttggtaga	gatagggttt
33841	tgccacggtg	tccagactgg	tcttgaactc	ctgagctcag	gtgatctgcc	caccttggcc
33901	ttcccaaatg	ctgggattat	aggcatgagc	caccacacct	ggtcaaaagt	agttttaaata
33961	tttaaatTTta	aaactaaaaa	agttaatctc	tcttctact	ttcatttctt	catcaggggc
34021	tattgggttta	ttcccaccga	ctagatccaa	gttctctgat	actaccttta	aaccactcca
34081	tcactttcca	gttccactgc	atacagtggtg	ggcttctgag	gtttcctggt	tcaaggtgtc
34141	cttgtttcaat	gcggcatggg	tcattccctg	agcatttttt	tttttttttg	acagtctcgc
34201	tccattggccc	ggtttggagc	gcagtggtgtg	gacctcggtc	tactgcagcc	tctgcctccc
34261	aagttcaagc	aattctgcct	caggttcccg	gataattttt	gcatttttag	tagagacagg
34321	gtttcaccgc	gctggccagg	ctggtctcga	acccctaacc	tcaagcgatc	tgctgcctc
34381	ggtctcccaa	agtgtcggga	ttacagacat	aagctaccgt	gcccggcctc	cagagcatct

FIGURE 1-J

34441	ttattctcag	tttcagcggg	aagaaggggg	aagggttgga	aaaagagagg	cacaaagttt
34501	aaaaaggaca	ttgcgtgaag	aaactaaagg	tttctccttc	tccacactat	tgacatttgg
34561	gatcggtatca	ctactcgttg	ggaaacgtcc	tgtacatttc	cagggtgttc	ggcaccatcc
34621	ctagcctcta	ccccctagat	accagctcac	atcctcacag	ttaacagtga	tcaaaaatgt
34681	ctctggggcag	tagaaaaatat	ttcctgaaat	gcaaagtttt	cttaggttga	gaaccattgt
34741	aatctagccc	catcttttaga	gaagaaattg	agtaacggat	ctacatccat	tgaggaacta
34801	tcgacacccc	aggggcccac	gaaatgtaaa	ctcgcaactca	caattaacca	tctttctcca
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34921	aacagggaaa	cctgtggcac	atgggttcat	gtgtgtctga	atctatacgt	tcagagatga
34981	acaagtactg	ctctccctat	acctgtgacc	actcgccctcc	gccccatcact	gaattctgaa
35041	aatgtggcct	caggctcaca	gcagcattag	cacttgcttg	ctctggatct	catcacattg
35101	atgatcaaga	acaaagtatt	cactgggttc	tctgctaagg	atacaaaaaa	aaccattcca
35161	caattccacg	gccatgtttg	cacccaggaa	ccacgagggc	tggttagacc	cagatggtgg
35221	gcttgggaaa	tgttcctgga	gcaaaaaaaa	gagccagaag	tcatgagagc	ctgacccctc
35281	cccccaacgc	gcacacacac	acaccactct	ctacctccaa	gcctcatttt	caggcttctc
35341	aaagctaagg	tcactcccat	gagctaagcc	gcgcttttct	caatcctcag	ctcttccaca
35401	agaataggaa	gaactctctc	ctgttcaaga	tctgtggct	cagctgcagc	tctggaagaa
35461	agaccccggt	gaggtcttg	cttttcacaa	tccccaatcc	cagaccacat	cctgtgcccc
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FIGURE 1-K

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FIGURE 1-L

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FIGURE 1-M

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47521	gacacactga	ggtcaagaga	ctgcagccat	cctggccaac	atgggtgaaa	cccgctttta
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47701	agcagagtga	gacKccgtct	caaaaaaac	aacaaaaaac	aaaaaaacca	taagacattg
47761	tccactctgcg	gttcccagac	tattgcagga	gaccaaaaag	taaagcgatt	tttttttttt
47821	tttaatacgg	agtctcactc	tgttgcacag	gctggagtgc	tgtggtgtga	tctcagttca
47881	ctgcaacctc	caactcgtga	gttcaagcga	ttctcctgcc	tcagcctccc	aagtagctgg
47941	aattacaggt	gcccaccacc	acgcccggct	aatttttgta	ttttcagtag	agacgggggt
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48061	aagtgtctggg	attacagaca	aagcgtaat	tttaatatat	tgtaaaaatt	gctgtaatag
48121	gcagcccaca	agacactgag	cgagagacaga	ggaaaccatc	gatccagcct	gcagggtcaa
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48301	tgagaacagc	atgggaatgc	gtggaaggta	tgagacaaaa	attggaggga	tcaacagggg
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48481	cgggcgcgggt	ggctcatgcc	tccaatccca	gcactttggg	aggccgagac	aggtggatca
48541	tgagggtcagg	agttcaagac	cagccttccc	aagatgctga	aaccccgtct	ctactaaaat
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48901	caaggggaaa	gagactgagg	aaagcgtatc	tgagagggcc	tggagcgggt	agaagatgtg
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49501	tctctgacac	actgcacaga	cactgaagac	agacaaattc	gaaagggtga	agacttatct
49561	tccatgaccg	gcttagtaag	aagcagatcc	gttcagcaat	tgatagacac	ttggtttttt
49621	ttccacgttt	tgctgttatg	aatattgctg	ctgtgaacat	tgacgtacag	gtttttgtgt
49681	gaacataagt	tttctgttct	cttgggtaca	cacccagggg	tgggtggaatc	actgggtcat
49741	acagtaactc	tgtgttttac	tttttgaaga	actaccagac	ttctttcttt	tttttctttt

FIGURE 1-N

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49921	agtagctggg	attacaggca	cctgccatca	cgcttgccca	actttttttt	ttgtacttta
49981	gtagaggcgg	ggtttcacca	tggtggccag	gatggtctcg	atctcctgac	ctcgtgatcc
50041	accctccttg	gcctctcaaa	gtgctgggat	tacaggctgc	gcctggccac	agactgtttt
50101	tcaaagcagc	tgaccatttt	tatatcccca	ccagcaatat	aagaagggtc	ttccaaatcc
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52981	ccaagtcttt	catccatctt	gagtttaatt	ttgtacaagg	tgtaagggaac	gggtccagtt
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53461	gaataaaata	cctaggaata	cagctaacaa	ggaaagtga	ggacatcttc	aaggagaact
53521	acaattcact	gctcaagaaa	atcagagcgg	acacaaaaca	atggaaaaac	attccatgct
53581	catggatagg	atgaatcaat	atcgtgaaaa	tggccatact	gccccaaagta	atttatagat

FIGURE 1-O

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53701	aattcatatg	gaaccaaaaa	agggcccata	tagccaagac	aatactaagc	aaaaagaaca
53761	aagctggagg	cctcaggctc	agacttcaga	ctatattaca	aggtgatagt	aaccaaaca
53821	gcatgggtact	ggtacaaaaa	cagacacata	gaccaatgga	acagaataga	gatctcagaa
53881	ataagaccac	acatctacaa	ccatctgatc	ttcaacaaac	ctgacaaaaa	caagcaatgg
53941	ggaaaggatt	ccctatttaa	tacacctgtg	tttgattttg	atttcaacac	agcgtgtggt
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56221	cccgtctcca	ctaaaaatac	aaaaattagc	caggcgtggt	ggtgtgcacc	tgtaatcca
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56941	tgttcacatt	gtggtacaat	atggtgacct	ctagaactta	ttttcttgc	aaaactgaaa
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57061	attgtacttt	gtgtttctac	agtgttgaca	ttagatacct	cctttgacta	gaatcataca
57121	gtagttgtcc	ttttgtgact	gacttagcat	aatgtcctca	aggtatatcc	atgttgtagt
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57361	tgaggtcagt	tcaagaccag	cctgaccaac	atagtgaaac	cccgtctcta	ctaaaaatac
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FIGURE 1-P

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57601	cccagctgcc	tgtagcccag	ggcttcctgc	cctcccactt	ccttcccacc	tctggccccg
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59521	agtcagaaaa	acaaaagttg	aggctgggtg	cgccgggtca	caccgggtcat	cccagcactt
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59641	atcactgtac	actagcctgg	gtgacagagt	gagaccttgt	ctcaaaaaaa	gacagagaga
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59821	aaggaaatat	ataagctgcc	tgataactgt	aacattcact	cagcaatatt	ttctcttaat
59881	tttcacttaa	gcaactatta	tgtgtctgtc	tgtattcttt	ttttgttgtt	ttcttctgtt
59941	tgttttgttt	tgttttgttt	tgagacggag	tctcgctctg	tcacccaggc	tggagtgcaa
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60061	atattttttt	tttttttttt	tttttttttt	tttttgggaa	acagaatctc	actctgttgc
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60781	tgaatacttt	attcccctga	aagattttat	agaattttac	attctaggct	ttgtggtatg
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60961	ggctaaagtg	agctatgatc	atgcctgtga	atacagcgag	tgtactaaag	cctgggcaac
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61141	cctcagcctc	cggagttagct	gggattacag	gagtgcgcca	ccgcgcccag	ctaattatta
61201	ttattttttt	tagtagagac	ggggtttcac	catgttggcc	aggtgtgtct	caactcctg
61261	accttaagtg	atccacccac	ctcagcctcc	caaagtactg	ggattacagg	cgtgagccgc

FIGURE 1-Q

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61441	cggggtctgg	gaacagaaat	aggatattag	tggaaagact	ggtgaaattc	aaatagcctg
61501	gagtttactt	gatataatat	agttgtgtct	atgggttagtt	ttttgtttgt	tttttgatac
61561	agggtctcac	tctgtcaccc	aggctggagt	gcagtggcgt	gatcacagct	ccctgcagcc
61621	tcggcctccc	tggctcaagc	gatcctcctg	cctcagcctc	ctgagtagct	gggactatag
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FIGURE 1-R

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FIGURE 1-S

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71281	tatgtcaggc	actcagtatt	ggcagtttta	tccattataa	atgctttaag	ctgcatagaa
71341	ttttaaacgt	gttaataaaa	gtagtataaa	atctttaata	cataagctgg	ctttaaaatt
71401	attggtaaaa	taagattaga	aatgtcttaa	gaattgttgg	cgtttttggg	tgtcttattt
71461	gaacRagtgg	tttcatgctt	atccctgcag	aatactatga	gatttgtcat	aagggttata
71521	aaactataaa	cccggctRgg	cgtgggtggc	cacgcctgta	atcccaacac	tctgggaggc
71581	cgaggcaggc	agatcacctg	aggctgggag	tttgagacca	gcctgaccaa	catggagaaa
71641	cgccatctct	actaaaaata	caaaattagc	tgggtgtggt	ggcgcagtcg	tgtaatccca
71701	gatactcagg	aggctgaggc	aggagaatcg	cttgaacccg	ggaggcagaa	gttgacgtga
71761	gccgagattg	cgccactgca	ctccagcctg	ggcaacaaga	gtgaaactcc	atctaaaaata
71821	aataaaaaata	aaacatttgt	tttttgtaga	gttgggggtt	cactatgttg	cccaggctgg
71881	tcttgaactc	ctcctggggt	caagcaatcc	accgacctca	gcctcccaaa	gtgctgggat
71941	tacaagtgtg	agccactgtg	cctggcccta	ttgggtcctt	ttaaaagata	cataaaaaat
72001	caaatgcaac	agtgaagtca	atcacccgat	ggcagaaatt	gggggtgctc	tggcatgtgg
72061	tcggtcgaag	ccaaggacac	tgctcagcat	tctgcagtgc	acaggacggc	cccggccagg
72121	cggagaatga	tccggtgaca	catRtaggtg	ggaaggatgc	acgaatgatg	gcgttttagga
72181	agaatattat	cacttctttc	ccgtaagagc	aacttagagc	aagaaaaatg	tattattctt
72241	agggccttct	ctcttatgga	ggctccaagc	caggggttgc	atggcagaag	atgctggggc
72301	tgccttttcc	ttgagagaac	ttgactcaag	atgatgtaaM	tgtcaccccg	gtgtgccactt
72361	gggtgctttg	gagaagcgct	cagacgcgac	acgccgtgac	gactccgcgg	caggcagccg
72421	gacctgtcct	ctggcgtgcg	gttcacgggc	tgtgtttatc	cccctgggtc	cttcacagcc
72481	accttgggaa	atagcttgcc	tctgaatcac	gccaggcagg	ctctcaStgt	gtgtgtgctg
72541	gggctggaaa	tcagggtgac	actccgctac	cgaacagcct	gactaggaag	ccagaaagac
72601	gctgcggcct	ttagtgtgtc	cttgactttt	ccttgatatg	aatgaagata	gagcacttcc
72661	acactgcaca	acaggaaaag	cccagaacgc	ttcctggaga	tagcgagggg	gtgatgcagc
72721	ggacagctat	ggctgatgac	cccctcacct	ctgactcccc	ctccctccct	gctttctgaa
72781	cgcacatcca	tcaccaacca	taggttccctg	tttgggggtt	gctggctgga	aaaaaaaaaa

FIGURE 1-T

72841	aaaaaaaaag	gaaagctggc	tttctagtaa	aaaccacttc	ctttgctcat	ttatcaaact
72901	caaacgctag	gagggccacc	taacatcctc	cgtcccacgc	aatgggggtgt	ttctggagca
72961	ctccggtKta	tcagggaccc	tgctagttgc	catcgcacat	gtatatgggg	ccagcccctg
73021	tgccaccgaa	gaggggggat	attgaaaaaca	tgttacagcc	aggagcgggtg	cccccttggt
73081	tcaagcagtt	cttctgcctc	agcctcccta	atagctggga	ttacaggcgt	gcaccatcac
73141	gcctggccac	tgttatgtag	tttttaccac	aatttaaaaa	aggaaaagagt	gcctgggtga
73201	gtcctacgca	cctattcgga	gaaccaaagg	ctttgaggtt	atcctcggcc	cacctatctg
73261	atgggagtg	ttctcaaact	tgcttttccg	tgatctccca	gtaagaaata	cctactacac
73321	acacacagtc	tccggtcggc	atgcttaggg	tagtcttcca	attccccctc	ctggtattta
73381	caccctggag	tgggtccRctc	ctcttgggct	gaacctgtaa	cttgctccca	agcaagagca
73441	cacagcaagc	tcacgcacgt	ggttggttgg	gtgattctgt	ttctccagat	tgtctccatt
73501	cctccctggc	ttctccacag	ggcgcgtcac	catggcagcc	ggctccatca	ccRccagcca
73561	gcgagagggc	aagacaagag	ggctgacgag	ggacgctacc	atcacagagg	tcagttttgt
73621	aacctaacca	caagactaac	ctactgtcac	ttctgccccta	tcctactgct	agaagccagt
73681	cgctacatct	ccccacact	caaagggagg	tggtcgcacY	gtgggggtcca	ctggaagtgt
73741	cctaccagac	tcaggtcac	ccaaacacac	cctctagcca	tttgggtgtg	catcggaag
73801	aaaactaagg	ccaggtacgg	tggtcatg	ctgtaatccc	aacaatttgg	gaggccatgg
73861	cggaagggtc	acttgagccc	aggagtttga	gaccagcctg	ggcaacatag	caaatgttat
73921	gttgccacct	ctacaaataa	ttagccaagt	gtgggtggcat	gcacctgtag	tcccagatac
73981	tcaggaggct	gaggcaggag	aatcacaggt	cgaggttgta	gtgagctgtg	acggcactgc
74041	actcagcct	tggaacaca	gtaagaccct	gtctctaaaa	aagcaaaaaa	ggctgggtgc
74101	actggctcac	acctataatc	cgacaccttt	gggaggccaa	gacgggtgga	tcacctgagg
74161	tcaggagttc	aagataagcc	tggccaacaY	ggtgataccg	tctttaatta	gccaggtgtg
74221	gtgggtggcg	cctgtaatcc	cagctactcg	ggaggctgag	gcatgagaat	cgctgaaaca
74281	tgggagacac	aggttgacgt	gagctgagat	catgccattg	cactccagcc	tgggcaacag
74341	agcgagacta	ggtggctggt	ctgtgtactg	tgggatattg	agtagcatcc	ctggcctccc
74401	cagtatctca	aatatgaaaa	catgttttct	atctcgatta	ctgagctttt	cggtgcctcc
74461	ttcggttctg	cacctaaagt	aagagcccct	tcctctcacc	ctgatctcta	tccagtttct
74521	aacacagcag	tcttgttaaga	tgcccggact	taaacggtta	tttccctgtga	aacaggtgaa
74581	aggggctttc	atctctaaaa	agtcggaact	tttttttttt	tttgagacgg	aatcttgcctc
74641	tgtcacccag	gctggagggc	agtggcatga	tctcggctca	ctgcaaKctc	cgccctccRg
74701	cttcacacca	ttctcctgcc	tcagcctccc	gagtagctgg	gactacaggc	gcccaccacc
74761	atgcccagct	aattttttgt	attttttttag	tagaaacagg	gtttcattgt	gttagccagg
74821	atgggtctcga	tctcctgacc	tcgtgatcca	ccgcgcccgg	ccaagtctga	acttttgcct
74881	ggcctgttgc	cctggtgata	aactgatgcc	ttgtttccta	aaaggaataa	agccatgagt
74941	tgcttttggt	cagctcatgg	gcattcaccc	atgcacagag	gaaaaataaa	atctacgact
75001	cgggtacatt	ttcttctttt	ttttttcttt	taaatgagca	agtttgagag	tctgcagttt
75061	ggactaccat	gagaattgat	aggaaggtgg	gagtcaccag	caatcccagg	tcctgtagca
75121	gcagctgggtg	gggttcccac	tccatgccgt	gcagagcctg	aactcaggat	gacacctgca
75181	cctgctctct	ggctgggctc	tggcacagga	agccctcagc	aaacaccccc	ggcacagcca
75241	tgccatagcc	agacaacagc	tcgctgtacc	acaccatcat	gggagacagc	agtatttctg
75301	agcatctcac	tgctgaagaa	accaaggctc	agagaggacc	atgcatgcac	aaggtcccac
75361	agggacccaa	gaatccacca	agtgtcagac	aacttgccca	tgctcttcac	ggagcacctt
75421	ggaacccctcc	ccgacaggca	ccgctggctc	tcctgacgtg	gcctgcaagt	gcacggagcc
75481	ccttccctcct	cggccattcc	cagtttagat	tcccagggga	agcatcagat	ggcccctctc
75541	ccctgctggc	agcagagcag	acggaaccag	ccagagcccR	gggcagtgct	cacctgcagg
75601	ccagtccact	gcggccagca	ccgcccccta	gaacctactg	cgggcatggc	ggccgccagt
75661	cctgggtctc	ccggctcagg	tagtgccagg	aagctgcggg	catggcggac	agctgtcctc
75721	ggtctggagg	cgccatcctg	gctttcaaat	ctgctccaga	ggttatctgg	ggaggggctg
75781	ctccctcaca	gagggagcct	ctaagcccac	caggcgggca	ctttcagccc	aaagcctccg
75841	ggccacctcc	tcctcctcag	cctcgggggc	cggggccttc	tgtttgagtc	catcgaagta
75901	ctttccggaa	acatccgcca	gttctctcgc	cacggccagg	tatgtgctgg	gctgggcggc
75961	cagctcgggg	ctcttgacca	gcagccagaa	gatggggcct	gcaatcagcc	cacagggcat
76021	ttagtccaca	ctcgtcagca	gagaaggaag	gaagccccgc	tccccgggtca	gggagctccg
76081	ggtccctgga	gtcccacaga	gccctctctc	agccctttcc	ccttgggtgc	ctccatctgc
76141	agttcccttc	cctggcactg	cccagggata	tcccaccaga	ccagggatca	gaccaaaagc
76201	tgccctcccc	aaggagcctt	cctggctttg	tccaggaaaa	tggaaagctct	cttccctctg
76261	gtcagcccca	gtcctcacc	taccccat	ctcctttaat	aacatcttat	taaatgcacc
76321	tggcaccagc	ctcaggttaa	ggatYttttt	ttggccaggc	gaggtggctc	aggcctgtaa
76381	tcccagcact	ttgggaggcc	gaggcggg	gattacctgg	ggtcgggagt	tccagaccag
76441	cctggccaac	atggtgaaac	cccatttcta	ctaaaaatac	aaaaattaac	tgggtgtggt
76501	ggcggRtgcc	tgtaatccca	gctgctcggg	aggctggggc	aggagaatcc	cttgaacctg
76561	ggaggcggag	gttgacgtga	gctaagatca	caccattgca	ctccagcctg	ggtgacaata
76621	gcaagacttc	gtctcaaaaa	aaaaaaaaaa	aaagggtg	gcgtggtgac	tcacgcctgt

FIGURE 1-U

76681	aatcccgagca	ctttgggagag	ctgaggcagag	tggatcacct	gagggtcagga	gttcaagacc
76741	agcctgggcca	acgtgtgaaa	ccctgtctca	actaaaaata	aaaacttagc	tgggtgtggt
76801	ggtgggcgcc	tgcaatctca	gctactttgg	gaggctgaga	caggagaatc	acttgaaccg
76861	aggaggcaga	ggttggagtg	agccaagatt	gtgccactgc	actccagcct	gggtgacgag
76921	caaaactccg	tctcaaaaaa	aaaaagacat	ttattttattt	atttattgag	acctggtgtc
76981	ttgctctgtc	acccaggctg	gagtgcagtg	gtgtgatctc	agctcactgc	aacctctgcc
77041	tcccggttcc	aagcgattct	cctgcctcag	cctcctgagt	agctgggact	acagggtgcac
77101	accaccacac	ctggctaatt	tttgtatttt	tagtagagac	ggggtttcac	catggtggcc
77161	aggctggtct	cgaactcctg	acctgaggtg	atccgcccac	cacagcctcc	caaagtgtcg
77221	ggattacagg	cgtggctatt	agcctcgcca	agttaagatt	cttgatgcc	accaatcacc
77281	cactccatgt	ttttcaggat	tataaacact	agtcataaag	catgaactgc	ctgggggtgg
77341	tggctcacac	ctgtaatccc	agcactttgg	gaggcagttg	gatcacctga	ggtcaggagt
77401	ttgagactag	cctgaccaat	atggtgaaac	cccacctcta	gctgggtgtg	gtggtgtgca
77461	cctgtaatcc	cagctacttg	gagacaggag	aatcgcttga	acctgggagg	tggaaagtgc
77521	agtgagtgga	gatcatgcc	ttgtactcca	gccYgggcca	cagagcaaga	cttcatctca
77581	aaaataagta	agtaaaagctc	caactgtttg	ttccacctat	tctctgggcg	gggtcctgtg
77641	ctggcccttt	caaggaaagt	ctcgtataac	ccccccagtg	actgtgaggt	gagtcctatt
77701	aaggcctgca	ctctgcagat	gaagaaacag	gctcagaggg	gtaacagctc	ttccccagga
77761	ggtgcagctg	gtttggggtg	aagctggagt	taccctgagt	acagcctgac	tcaggcgctc
77821	agctccacgg	cctcttcctc	tgagacacgg	ttttctcatc	cgccagcagg	gctctgcctg
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77941	gtgcctcaga	agacgtaggc	gaggagcagg	catgaggcct	cagggacggg	ctctgaggga
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78061	tgggagggga	ctcaccgagt	gtggtgctgg	agaaggtgga	gccatggatg	cccggtgtgc
78121	tgcccagctc	tgtcctggcc	acgcccgggt	gcaggggcgt	gacagtcaca	ccagagcctg
78181	gggaagaag	aaagagaaga	ctgagggagg	gggccagcct	cacctgggag	gctgtggcag
78241	cccacaccca	gctgtggggc	ttccgggcac	caggctgctt	cctgcactca	aaccccatcg
78301	tcctctttgc	tctggaatct	tagtgaagtg	gtcttatctt	gcggagcggc	tctgccacat
78361	ggctgctggg	agccgagctt	tcctggaggg	cttcataaac	ccagaacgct	gagcttacct
78421	cgggagcctg	catcggtgcg	tggcggtggg	acctaaagata	ctgtaactct	gaccagctcc
78481	cagtggggct	ggcaccgctg	gtccacagac	cgtctttcag	aagcaaaggc	ctagcacaga
78541	tttctcaatc	tcagcactgt	ggatgctgtg	ggttgggagg	agtgaggggc	catcccgtgc
78601	gctgtaggac	attgagagca	tctgggcctt	taccctccag	atgccagag	caatctctcc
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78721	tggttgagac	tcactggctg	gagccaaaag	gctgagctgc	ctgcccacaa	gcagcaggga
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78841	gatcgattag	tgatgtctgc	ttcagRcacc	agaagcgggc	agcgtggtcc	acatgctcta
78901	cttttctgta	ctctgttctg	gatccaccgt	ttggcctccc	atcagcctag	gatcatggaa
78961	aggccgctct	aggctcagag	taaagcaaga	gggaggccga	gcctagcgcc	cccgtaacct
79021	cgagccgccc	gctcagctcc	ttggtgaaga	ggacgatggc	Ragcttgctc	tggcagtagg
79081	cggctttggt	gttatacttc	ctcgtctgcc	agttcaagtc	gtcaaagtct	atgtgccag
79141	caacatgggc	cagggacgag	aggttgatga	ttccggaagg	ggctgaggct	ttcagcttgt
79201	ccagcagcaa	gtttgtcaag	agaaagtac	ctggattaag	gatgatgaaa	aggtcacttt
79261	tgactcacac	ctaaaatccc	agcacttttg	gaggacgacg	ggggaggatc	gcttgaaccc
79321	atggtgcagc	ccctgccag	gcctcaccca	ggtggttaac	gccaaactgc	atctcgaagc
79381	gtcctcgggt	ggtccagtgg	ggcaccgcca	tcacacccgc	gttggttgatt	agaatgtcca
79441	ctcgtcctc	ctctggaaga	gaggggtgga	ggaggagaca	tcccgggtgag	gacagacccc
79501	agcctgatgc	accagcagaa	acactcctgt	gctcccacaa	cctgtgaatg	tggcctgtgc
79561	cggaacacag	gtctgtgccg	aagtggccat	gtcaggatgc	ggtcattagg	gtgagcccta
79621	atccaatgac	tgggtgcctt	ataggaaggg	aaaacagaga	cagagacaca	tggggagaag
79681	gccatgtgtg	gacagaggca	aagaccggag	aggcacagct	ccaagggtgag	ggtgggcccgc
79741	ccccgctgga	agtgaagag	gctgggagga	ttatggcccc	tctcacaggt	cacagccaca
79801	gggacaccgc	gattcagact	gccggcttcc	ggaaccgtga	gggaatgcac	gtctgagggt
79861	gtaagccact	gggtttgcag	tacattgtta	cagcagctcc	aggacactca	cacgccctcc
79921	gcacctccat	ctaagccttg	ggactccttc	ctgccggagc	cccagggcca	aaaacgggag
79981	gttaccgggtg	ggagccccgg	caccgcaggc	gtgggtttcat	tcccaaacct	gccacctcac
80041	tcatacaagc	aaccaaaagg	cacacagatg	gagactgcag	cctcagtttc	ctcagctgta
80101	aaatgcgctg	aaccacaggg	ccttcctccc	tgtaccactc	agctcgggtt	ccgtaacaaa
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80221	gtaatcccag	cactttggga	ggccgaggtg	ggcagatcac	ctgaggtcag	gagtttgaga
80281	ccagcctggc	caacatggag	aaaccgcgtc	tttactaaaa	atacaaaatt	agccaggcgt
80341	ggtggcatgc	acctgtaatc	ccagctactc	aggaggctga	ggcgggaaaa	tcgcttgaaa
80401	ccaggaggca	gaggtgcaag	tgagccgaga	tcgcatcatt	acactccatc	ctgggcaata
80461	aaagcaaaac	tccatctcaa	aaaaaaaaaa	aaaaatcaca	gtcccagagg	ctggaagtcc

FIGURE 1-V

80521	cagatcaagg	tgtgggcagg	gctggttccc	tctcagggcc	ctcagggagg	atccgcctctg
80581	gtctctctcc	ttggctcaca	ggtgaccatc	tcctctctcc	ctcttccctt	cctcttccct
80641	ttggagctgt	ctcttttttt	tttttcattt	ttcttttttt	aatttttagat	ttttcagaca
80701	tgggtctcact	atgttgccca	ggctggtctc	aaactcttga	actcaagcaa	tcctcctgct
80761	ttggcctccc	agagtgtctg	aatttctactg	ccccagcct	attttttttt	ttttgggggg
80821	gggagatgga	gtttcactct	tgtcacccag	gctggagtgc	aatggtgcga	tcttggctca
80881	ctgcaacctc	tgcctcccag	gttcaaacaa	ttctcctgcc	tcagcctccc	aagtagctgg
80941	actacaggca	tccaccacca	caccgggtta	attttttgta	tcttttagtag	agacggggct
81001	tcaccatggt	ggccaggcta	gtctcacact	cctgacctcg	tgatccacct	acctcagcct
81061	cccaaagtgc	tgggactgca	ggcgtgagcc	accacactca	gtctacttgg	cctatttttt
81121	atatttcttt	gagacaggg	ctccctctga	cacttgggct	ggagtacagt	ggcgactca
81181	ctgctcactg	cagcctcaac	ctcccaggct	caagcagtct	tcttgctcag	cctcccaagt
81241	agctggggcc	acaggcatgc	gccaccatgc	ccagctagca	cgtctgtttc	tgtgcgcaaa
81301	tctccccttt	tcataaggac	accagtcact	ggattagggc	ccacccta	gacctcattt
81361	tcaattcagg	acctctgtaa	acaccacct	ctaaatgaag	tcacatgctg	agggatgggg
81421	gttcaggatc	ccaacctatc	cttgggggtg	gaggacacaa	tgggaattcat	aatgctccc
81481	aagtggtttt	cggcggggat	cgtgaattag	gtgtccagcg	cgtaacacac	agacaccatc
81541	tggttctctg	tgtgagaagg	agggggttgc	agcacacccg	tcatgaatac	cagctctgga
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81721	ataacatcac	ctgcctggta	caactctata	cttactcatt	cagtaagtat	tttctaagca
81781	cctattactg	ggcactggaa	atacagggtg	gacagcacag	ccgaggcccc	gtccgtgtgg
81841	accggacatt	ccagtgcagc	tgagagccac	ttccactcgt	gagagaatct	accctgaca
81901	gagctgctg	gaagtgcaca	ggaggccct	ctcaggaggt	gacgcagaaa	ctgggaccgg
81961	gaaaatgagg	cagggccac	gtgcggagac	ccagggaagg	gggatgcagg	cagcaggcgc
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82081	gtgccgccag	cttctggtgt	tttgttttgg	ttttttttct	tttttttttt	gagatgaagt
82141	ctcactctgc	caccaggct	ggagtgcagt	ggtgtgatct	tggcccatgg	cccactgcaa
82201	cctctaccgc	ctgggttcag	gcgattctgc	tgcctcagcc	tcccaggtac	tgggattaca
82261	ggtgcccgc	accgcacct	gctaattttt	gcatttttag	tagagacggg	gtttcaccat
82321	cttggtcagg	ctggtcttga	attcttcacc	tcgtgatcca	cccgcctctg	cctcccaag
82381	tgcagggatt	acagggtgta	gccaccgcgc	ccagcctgtt	tttttttttt	tttttttatg
82441	agagggaagc	tactcagtgc	gccaggctgc	gagtgcagtgc	gcgcgatctc	agctcacagc
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82561	caggcgcccc	acaccacaag	cagctacttt	taaaattttt	tgtagaaatg	gggtttggct
82621	atgttgctta	ggctggtctc	gaatttctga	gcttaggcaa	ttcgccacc	cctcccaag
82681	aaagtgtctg	gattgcaggc	gtgggccaca	gtgcctggcc	tgttgttttg	tttatctggg
82741	aactgcctca	actttttttt	tttttttttt	tttttgaca	cagggtctca	ccccgagtgc
82801	agtgtgtaca	tcaaaagtca	ctgcaggccg	ggcgtggtgg	ctcacatctg	taatcccagc
82861	actttgggag	gccgaggcgg	gcagatcacc	tgaggtcaac	cagcctgacc	aacatggtga
82921	aacctgtctc	ctacctaaaa	caaaaaagta	gccgggcagt	gtggcagggt	cctgtaatcc
82981	cagctactca	ggaggctgag	gcaggagaat	tatttgaaac	caggagatgg	aggttgcagc
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84241	gaggctgagg	caggagaatg	gcatgaaccc	gggaggcgga	gcttggagtg	agccgagatg
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FIGURE 1-W

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88141	agatggagtc	tcactctgtc	accaggctg	gagtgcgggtg	gcgcaatctc	ggctcactgc

FIGURE 1-X

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FIGURE 1-Y

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94261	gcaggagaag	gcggctgggg	gcctggactc	ctgggtctga	gggaggagg	gctgggggcc
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FIGURE 2-A

>6:112446501-112541900

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241	cgtgcatcta	aaacacaggg	cctgcccaact	agctcggaaa	tcagttctta	gagaagagag
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361	caccaaata	gaaacttttc	ccagttaaac	ttgaaacata	aacattgtta	aaaaaattta
421	aggctggaac	ataggtgata	agacagggtat	tcacaaatac	catagggaac	tagaaatcaa
481	tgttaccttt	ttggaaagca	atltgYcttg	attcagtaat	tctgcccctg	ggaatctatc
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601	ggagaaaact	agaagcaact	gaaagtctat	taatggttaa	gtgaatatag	taagtgaata
661	aaatgggata	ttagggaagt	attgtgaaaa	taaattatta	caatcccaat	tgctttgatg
721	cagccttgat	gaaaatttag	gtcagaggcc	atacattttt	cttggtagct	atltatgaag
781	ctgttgaaac	aagggtcaat	ataagaaaag	attagcaaat	gttgacattc	tagttaccat
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1141	gtgtcagata	aaaaaatttt	caggataaat	cttttagcat	caatgtatga	gggtaacagc
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1921	ccctatgatg	cagatagctg	tgtatgtatt	gaacacctat	tatatgcatt	gttctgagtg
1981	cttattatat	gtcagggaac	aaaatgaatg	agcttgcatc	tagtagagga	gacagacaat
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2101	agaatagaaa	gaggcaaaag	agcagtatta	ctggtaggag	gtaggaggca	ggctgcagta
2161	ttcaataggg	tgtcaatgta	ggtcattgaa	caggtgagag	ttgaacaatt	gtagaaggag
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2281	taaagaacct	aaggtaggag	tacacatggc	ccattctag	aatagttggg	aggccagtat
2341	ggggagaaga	gtgagggagg	tgggcaagta	ggaggagatg	aactcagggt	aaggcatgga
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3121	gcggatgagc	ctggaggaca	ttatgtttaag	tgaataaagg	caggcacaga	aagacaaata
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3361	tatagttaac	aataacttat	tgtatatttc	caaatagcta	gaagagatga	ttttgaatgt
3421	tcccaacaca	aagaaataat	aaatgtttga	gataatagac	atgctatcac	tctgatattga
3481	tttttgacaca	ttgtatacat	gtattgaaag	atcactctgt	accccatata	ttgtgcaat
3541	tactacattt	caataaaaaa	taaaaaatgc	ttctataaca	aagaattaat	gcaacaaatc
3601	tggtaaacta	gaatatgtga	tactgcaaga	atcccatctt	tcctatgtac	gtagttgcaa
3661	agtatcaagt	caattctcta	aaacagcagt	gtctagaact	gtgtgcatgg	aaaatgatga

FIGURE 2-B

3721	caattagga	gtcagaacg	cattatcttt	taccttttta	ttctgacttg	ctttaggctt
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3841	ataaagagaa	gtgtggacct	tttcagtata	ccgttgga	tcttcaacct	ccacatctct
3901	atccaccctg	tgtttgtaac	agaggaaaa	ataaatatta	aaaatattgt	tcagaattac
3961	atgatgaata	ttatggaa	Saaagagctt	tggcaattaa	aatgtgtgtg	tgtgtgtgca
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4081	tttaaatata	cattcaacct	gttaataact	atgtgcctgg	catcacatat	ttataataat
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4381	gctgtatgcc	agacactgta	caagttgctt	tatgtgcatt	atcttctcat	ttaccttca
4441	tgacaaacct	accaagtagg	caccattatt	atctgcattt	tcaggtgaag	aaatgaaggc
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4741	aaattagcat	actgagcact	gattgggtgag	ccaccgaagt	aaaacttctt	ttcacttgct
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6241	aatcccttcg	aatagatgat	atttgggtct	ccttggggat	gtagctagat	gactaggcaa
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7441	tttgaaatga	ggcattctgt	gtgtctacgt	gtgagtcaaa	attaatctga	atagaaaatc
7501	acttctaaca	tgcattacaa	attatttttta	ataggcaaaa	caattatcac	aaagaagttt

FIGURE 2-C

7561	cctcagagaa	aaacaaacac	ttacccctga	agcataatag	aatagtaacc	catttggttg
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7681	agcaatgaag	ctctgtccat	tgaaatatgc	tctgcgagat	atctgtgtgc	cagaacaagt
7741	ggagatagtg	tttttgagaa	ttatcaaagt	cttaaaacta	tcaatgtttc	acatacggaa
7801	ggccttgcc	gttaRtttct	acgtaaaatg	tttattttcc	cacttctggt	ctatgttgga
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10981	gagctttctt	taacgtatct	tcaagatgca	caSggccacY	gctgaatcca	aaatcataga
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11281	tgggaggccg	aggcaggtgg	atcacttgag	gccaggagtt	tgagaccagc	ctggccaaca
11341	tggcaaaacc	ttatctctac	taaaaataca	aaaactagcc	aggcgtgggtg	gtaggcacct

FIGURE 2-D

11401	gtaatccag	ctactcagg	ggctgaggca	agagaatcgc	ttgaacccgg	gaggtggaag
11461	ttacagtga	ccgagatcgt	gacactgcac	tccagcctgg	gctacagaac	gagactctgt
11521	ctcaaaaaa	aaaaaaaaa	gtgacaacta	cttccatata	agcagctatt	tctcttatta
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12481	ggctgatata	accgaaataa	tagaatattt	acactcattt	tgtattgaga	tgtagagtga
12541	tgtgaaaaa	ttttgagaca	cacagatatt	tgctggctac	ttcctacaaa	tttctgaaaa
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12661	gttgaacttt	attcgtgatg	acaaatgtct	gacagtagta	tgaatcctac	tagttatttc
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12781	taactttttc	tccttttttt	tgaggacggt	tatactgtgg	agagatgggt	tttaaaaaat
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12961	aaaatatttc	aaataaagat	tttcaaatgc	tttgaaccct	tttatataag	tttaaaaaat
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13081	caaagacaac	ctttgccact	tggtgaatgt	gattgaaaac	tatttgagtt	agtaggcaca
13141	gctaatagata	tggttctttc	attttttatt	tttgtgaggt	gtcttgtcta	gttacaacca
13201	ccaataaaat	tactgttgaa	ataaactgga	cttaggacaa	gacttttgaa	gactgtgtc
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13321	actattttct	ttgagctgta	cagtagataa	agtactatta	aaaataattt	tagtgagaaa
13381	aacattttctg	tatcat	aaataagtca	at	cat	atataatctt
13441	ttat	ttatataat	ttgtccttta	ttacaagctt	tgactgtttc	atactatatt
13501	tatactgttt	tatagtacac	atgtatcatt	tataaaca	gatataatg	tggtgtgtg
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13621	aaaattgatt	agggcatatg	gttttgaaaa	gttaggagcc	cagtgcaaaa	tttctgcaga
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13741	ccaaaaatgt	actgtgggga	aatgcactc	agggttgctt	ttatttattg	ctgtcattac
13801	tttctgaag	aagaaaaatcc	aatttgactt	tctaaactag	aatttcagtt	tgatggcatg
13861	acacactaga	cctgggaagg	ttcctgaaa	catgagtagc	agaaagtaaa	ggaaataaag
13921	gagaagtagt	aggacttgta	tttttactca	ctccattgac	catcaggaga	ataaggccgt
13981	tgtcagctgg	tgttcgaact	tctatgtcaa	agcagtcac	ctgaccaa	ttcctctctc
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14161	tttctgttat	Rcttttcaag	tgaagccctt	ttaaaccatt	cttcta	cttctgtgga
14221	ccttacaaca	tttaaatgaa	gtcctgttgt	ctgcaaggaa	gagataaaga	ggtatttRta
14281	ggtatgttaa	atggattgtt	ttcttctgta	tcctgtgtgc	taagacaact	gaagtctcca
14341	gggacaccct	agtctctgga	atccttaatc	aaggctgcaa	acaagttgtt	taacacttca
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14521	cttgttctat	ctgctgctct	tgcatgaata	tccaagtctt	tagtactctt	aactgtctct
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14641	aagctgatca	catcattatt	caaagtggcc	agttccaggc	agccaacaa	gccaggcagg
14701	tttaagctgg	tagggagcta	tgaatatgaa	aaagtaaaac	cacttgtctc	atggtcatat
14761	tttactcaga	catcacagaa	cagacaatgc	aactaatagt	aggtcaagga	gacctacccc
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14941	gctggtcata	ggctgtacag	tgaattcatg	acaaaaatca	gtccttgcgc	cagcttttgt
15001	aggtaggat	tcttgttctc	atataattgag	agggaaaaata	attctcagat	aaattccaat
15061	tatgtgccca	taactagtaa	taatagtcct	gaaattggaa	ccctagatca	acttcccatc
15121	ttcttcgacc	tttcttttat	cccccttcat	cagatttcat	actctctccg	aagtctcacc
15181	ccctctctca	tcccagatac	tttatttcat	acctgtatta	ggtgagataa	ctgaattttt

FIGURE 2-E

15241	gaaaccacca	ctgcaaagct	gaagattaga	tctaaactgt	ggtgacacca	caagctacgg
15301	accttcctgt	ggcaggtggg	ggtaattatta	attacatatg	catgtatcag	aatgaatgaa
15361	ctgatcttca	ggagttagct	ataacttgaa	agcatttgac	attatgaaaa	tatgagtagc
15421	atagaccaga	tttacacatc	aggtttatag	attctgggtc	agaattctac	tcccccata
15481	actaagctct	taaagtgata	tcagcaaccc	ccaagtcatt	ataggtttat	ggatttataa
15541	aaacaattac	tgtagatttg	taataggcca	aaatatagct	gtatggctga	ccttgaagtt
15601	ggaaggcact	ccaccaacat	aaaacactgt	gtcctcaggg	tccagggtcca	gcagagagtc
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15721	gactgttaaa	aacacctttc	catgttttcc	caccctattg	agataaataa	ttttcacttg
15781	ttattatata	attcatagaa	aatacttttt	aaatgtcaaa	atgttaatgc	tccctcatca
15841	caaaatgggt	aattttgtga	cactaataag	catttaca	ataccacaat	caatgagaaa
15901	gagaagaaag	acattccatt	ttgaagttaa	ttcatggatt	gaccaggtaa	aatctaataa
15961	tcagatcgtg	atttagaaat	gacttttttt	tttctttcct	actaagggtg	ttgggaaaga
16021	atataagaat	aatggaagaa	aacggagcaa	gaataaagg	aggaaaatgc	tatttataac
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16141	gtttcttgtg	atatgtgcat	atatgccttg	tgatcatggat	tcactgtacc	tttcaatctt
16201	gacaatgctg	aagtaagcag	gccaggaaact	gacgggcttg	gagtcagggt	gaatctccac
16261	atcttttagtt	cccaaattat	agacgtatac	cagattatca	tttttgattg	caagacccat
16321	atactctttt	ttggcctgaa	atatcaagaa	gtaagaagtc	atttaaataa	aattcataag
16381	aatgaacatc	atctttttta	aaggacaatc	agaaatccaa	atatttgggt	atatacaagt
16441	gactttctgc	ctgaattatt	atccgaagct	cctgtgagca	ggcagtgctc	cttcctttcc
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16561	tgttggtctg	caggaatggg	ctaattttgt	gaggctaacc	caggaatata	atacagcctg
16621	acagtaccga	tcactatgca	tctctaaaca	ggattcagca	tcaaacagaa	taggcttctg
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16741	ataaggaaac	aatcccaca	atatcccaca	cagagaagaa	atgacttgct	ctttagtcac
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17281	gggcagattg	tgacacagta	gtttaaagtg	gggtgaaaga	aagcaaaaaa	aaagtgggtga
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17461	aattttatata	aaactaattg	tttgggagaa	gtagaactaa	ttttggttac	taatacagct
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18241	tgagtaactg	ggactacagg	tgtgcgccac	cacgcccagc	caatttttgt	attttggtag
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18421	caatacatct	taataaaca	gMagtgtggg	ggattaaagt	cttacattaa	taagtgtgag
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18541	caactcccaa	agtgggggct	aagtctgtct	ttagcaaatg	gtcctagggt	tttaaggctc
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18661	tagaatgcca	tttcttgatg	tacctttaga	taaacctttt	ttgaaaatgt	tcactggggc
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18961	acaagctcca	ctttgccaca	ttgaaaagta	attgtctatg	caggagatgt	tcctacaaat
19021	gccagcccta	gttatcttct	gctaagttgc	ttctatatgt	gtcccaaaa	acatatagtg

FIGURE 2-F

19081	tgtttgttga	gtttattcct	cttagccagt	atgtgattcc	tcagttaacc	ctgcgggtgg
19141	tcagtaaaaag	cttctgcata	atthgtgttg	taccagataa	tttcttgaag	gggtaggaca
19201	gatgggatag	attattccat	tatggtaatt	gcactaaagc	agctgttaaa	ataacataaa
19261	atataagaac	gaattgaggc	ttttattgag	gctttacttc	ttttgctata	ttagctttat
19321	tgactagttt	aactctgtgg	tttttaaac	tggctacaca	ttagaataac	ctgggagctt
19381	taaagaacat	acaggtactg	agccctttct	ctacagagtc	tgatctattg	ctttcaggtt
19441	gggaccagga	attgggttcg	ttttcagagt	tcctcacgtg	tttctaatta	gcaaatgggg
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19681	gcagaaacgt	tgcttgcagg	tcgcttctgc	tcaaccgtac	gaagctgac	caggagctga
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19861	actaagagaa	atgattttta	atcctgcaaa	attaatagta	aaacctgtaa	ggtacacaga
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21181	agaatggcat	aaatttttcc	agagtttcat	tgactgaaca	gtggttctta	aagtgtgggt
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21361	ctccaggtga	ttctaattgca	cactagtatt	tgagaaccat	tggctcagag	acgaaatact
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21541	atcagaagaaa	catcccttct	ctgtacttag	gacacacgat	gtttctccag	Ygcaaggaaat
21601	agaattaagt	aaaataatag	caactatcag	tttattatat	tgattaatac	agaggtaaata
21661	atthattgtt	tggatcactg	acaacgacat	ttattttaga	gtatactagt	cttaaaaaac
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21781	gagtcacct	gctccctaca	atcaattctc	ttagaaaaag	ggagccacct	tatattagag
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21961	ttggaatcac	ttgataagac	tggtaaaaaa	tggtgaaaaa	atgtaacaga	tttggtacat
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22081	aagacaaaat	tttaaaagca	cttcttgag	tggttacatg	gaagaaatga	atataactct
22141	aaaagatcat	tataaaagag	ctattttact	gttatgggaa	tgggtatttg	taaatgggaa
22201	taaaatttgt	actgacagat	catatatgga	tttatgacct	ttcttaattc	agatacaagt
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22321	atgatattga	cagacattgc	tgthtaagaa	gttatgaagg	gattggataa	aaatgtgaga
22381	atggaaaaag	cgaaatttca	caagtactgc	ctggttctaa	tatctacaaa	ataagttagg
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22501	gctgttctta	atagaaagct	ggagtatatg	ttggccatat	tcagtacttg	ttggtaataa
22561	cctaattact	cagataaaga	aaaagcaatg	ttgcctagta	gaagcaatgc	catttagtaa
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22681	cttggttccct	aaaagataag	tcttactgtg	atacaattgc	taccataatt	tcacatagaa
22741	aaaattatga	ctctttacca	atccacttag	tgttcatacy	aaatatatgt	atgtttctca
22801	tatgtattta	gacaggtata	gatagataga	tagatgaaca	gtgcaaaagc	ttttcttttt
22861	ctaagctaac	ttctataatt	ttcgaatcca	aaacccaaat	gaagaaaact	gttttttgac

FIGURE 2-G

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23041	ttgaagattc	tgtgaccagt	tgggttagatt	gttggccatg	ggggcagtgg	cctgctgcac
23101	ctccatcgtc	gtcctgttgg	cttcctcggg	gatcagtcta	gactgcccc	ggcgctgctg
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23341	gtaaatTTaa	aaagaagagt	aattgtattt	cctataacct	ggtaagaaag	ccatagaaaa
23401	tgcacatgag	attttaactc	ataagagggt	tgtgtctgaa	attaattgca	aatatcactg
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23521	taatcaataa	agaaagatat	ttttttaata	gaaaaaaagc	aaatttcaaa	gagttttagt
23581	agtgaattcc	catttttgtt	aaaaattaca	tctttaaaat	aaccatgatg	taaatttaca
23641	acaaaaaatt	ttgtctaggg	gatgggatta	taggtgattt	tcttcttttt	ttcttatctg
23701	cattttctaa	tatttctatg	agaattattt	attattttta	taaaaataat	tataattcat
23761	ttagggtgact	ttataacttc	aaattttata	aatTTgaagt	tgtgccctaa	tttggttatt
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23941	tttttattat	aaaaataata	cttaatttaa	taatataata	ataataaata	atttattaaa
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24301	tattcttgtg	atagtgagtt	ctcatgagat	ctcgtgggtt	tataagtgtc	tggcatttcc
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24421	ctgtagtttt	cctgaggcct	ccccagccat	gcagaactgt	tagtcaatta	aacctctttt
24481	cttataaatt	accagtggtt	ggctatttct	tcatagcagc	gtgagaacgg	actaatacac
24541	ctatgttgaa	cacttaggac	aatgcccagc	tcacactaag	catcaataaa	cagtcattct
24601	gatgacggtg	atgatgaggc	ttctccatga	aggaccactc	tcctggccag	agctttgggtg
24661	cactgtagca	ctgtagctag	gatttgctca	ttctagtaaa	acaccatata	gctgcactag
24721	ttttttaact	ttcactgcgc	gaaggaaggc	acatctgctt	ccaatcacat	ctatctaaga
24781	taccactgca	gtcccagatt	aagcaaaaag	tgtgcttttg	tttctctatt	tgggcttgggt
24841	ggtctccctg	gtttctattt	ggtctctggg	cctgttgctt	atatggtaag	aatgacttga
24901	catgtaacag	agggaagctg	tttacagctg	ggccaaagaa	atccaataac	caaattaggg
24961	catattgtta	tgaggaagga	tgttcataag	aaagccatta	ccaaacacta	taaacagcat
25021	gatcccatta	aaagacacac	acacacacac	acacacacac	acacacagac	acacacagac
25081	acacacacac	agaggcaatg	ctggaaaaaa	aggctctcaa	atctaagggt	cactctacgc
25141	tgggtgtgatt	acagcattta	tatttagttt	cttctttttg	ttttctagaa	cttttttttg
25201	tgatgaacgt	attttgtcat	cagaaaaata	catttatgta	taaaatcatt	gacaaacaaa
25261	gaattaccta	atccttcctt	gaaggtttac	cttacactcc	agtgaatcaa	cagatgaSac
25321	ttcaattctc	tctgatgctt	acctctctct	gctgcttgta	gttgcttaac	ggcatcactg
25381	agtctggttt	taagggcact	tttcttgctt	agggtccac	ccacagcctt	gctagtgtca
25441	gccactgctt	catcactgcc	tgtggaagag	cagcagaaag	aagtactagt	ggagccaaga
25501	tgccctgaaa	aggattccat	ttcaacaagg	aaacttctca	tttgtacgat	gcagtcatct
25561	gcagtatttg	cagtattctg	aatactctga	acatagatca	acaattctgg	aaagtagcat
25621	ttaaaattcg	aggtacagaa	ttgcagaaca	cttgaataac	tgcttgtag	tgacttagga
25681	tgccatcatg	gttactttct	ttgattgaaa	catatagccc	tgccatgact	aataacacca
25741	agcagcacia	ttgttaaaga	gctgaaaaga	aaaaaatctc	tctctctcta	catatatgtg
25801	ataacgactg	gttataaaaa	taatccttgt	tttcttattt	gtttcaataa	aattttaatt
25861	gcaatataac	atacatctag	aaaaaggcac	cctttataaa	tgcacagctt	gacaaaaatg
25921	ttcacaaaaa	gaacacaaaa	cataaccggc	atccaagtca	agaaaataga	aacttattac
25981	cacctttgaa	gctccctaga	gccccgttga	taaccctaa	ataatcactt	ttttgaattc
26041	tatctccatc	tgtttggtgc	tgtttttaaa	cattattcaa	gtgaggatat	ggtattataa
26101	tcttttatat	ctgtcttaat	tattactata	tagagctata	atacaccttg	ataatgtagt
26161	ttgtcttcca	gctttgtttt	tattcttcaa	gacagtcttg	gctattcttg	gctttcccct
26221	ctcattttcca	tataaattct	agaattttca	gttcaggtac	gttcaggtac	tttaatttaa
26281	atctgtagat	gaatttggga	gaattgtcat	ttttacacat	tttaattctt	tactcaatga
26341	atatgggtatt	tatttatcat	ttatatataa	attcttggtt	agatcttcat	ttatttagat
26401	ctttatgcgt	agcaacctta	gcttctttta	tcagatttat	tcctatgtat	ttgatgctat
26461	tgcaaacact	gttattttta	aaagttaatt	tcccaatgtc	gtatgtaaaa	ttaaatcgga
26521	tttttacaca	ttgaattggg	aatgtagggt	gtccttggtat	tgtttcta	attagtggaa
26581	aagcattcaa	tatttccatt	ttaattgtctg	aatattattt	tatttttcag	attatgggaag
26641	tttcttctta	ttctcagttt	gccgaaagtc	ttttttaaaa	gtcaaaaatc	ttttttaaaa
26701	gtcaagtttg	ttaaataatt	tttctgcatg	tagtgagatg	atcatatgaa	tttctcctat

FIGURE 2-H

26761	atcctataaa	tgtgacaaat	tacaattgat	tttttaaatg	ttaaactatt	cttgaaatcc
26821	taaaataaac	tcaaattggg	catcatatat	tgcactttat	aggtgtgcta	gatttgattt
26881	gctaataatat	tgattagaat	ttttgcatct	ctttttgtga	gagaatttgg	cttataattt
26941	tccttttttaa	taataatcctt	atgtgattca	agtaaccaag	ttttgctggc	ttcataaaac
27001	aagttccaga	gtgctttctt	gttttctatt	ttctagaaga	gctcgtataa	aagtggtggt
27061	atttcttctt	taaatgttta	agaattcact	ggggcagcca	tctgagcctt	gagatttctt
27121	tgtgggtagg	gatcgattag	tggttaaatt	tattatacat	atgtatgtac	atacagttct
27181	atcagatttt	gtatttgcat	cagttttgag	agtcttttgc	ttataaaatt	gttcttgaaa
27241	gcacacttgt	ggcacagtca	ctagactggg	tatctttgag	caaatcccaa	cagatcatga
27301	tgtaattacc	tcacatctct	aactaaagga	tcaactttgc	cagtaattct	tcatttctgt
27361	ttgtgcttta	attccaaagc	actgagaatt	ttgtttctta	acaaacagaa	aaatagtttt
27421	attcacttcta	attacacttt	tctctttctc	tccaatggga	ttgtaaatat	acactctctg
27481	acggcacccc	tttgctgttc	tattaggtag	tcttgatgtg	attggtttaa	tgttatcttt
27541	cccccccaga	tatgtgtata	atgggtggtg	gtgtcatgaa	gtacagttaa	ccaaatacaa
27601	gcacttcttt	catattttct	ctgggtagt	tgaagaattt	gcattgcacc	ctgcctcctt
27661	cctcttttct	aatttcaatt	cccaaactt	ataatacaaa	caatgtttta	gctcttattt
27721	tgggtctcat	gactgcaaaa	acaaaaaaa	atactacctg	atatactgag	aaagaaatata
27781	tttaactcta	tatttgagc	acttgataaa	aagaggagga	agaaaatcaa	ttttgggctt
27841	gatgtttata	agaagaaatg	tttcataaga	agtgtgttct	atttggaatt	tactgacttg
27901	cataaatact	tttcattttg	caaatagatt	aagtagaaga	ttcattttaa	tagcagcttc
27961	ctgagattat	attgactatc	aactatttga	tatataRtga	aaaggaaatt	tgggaaataa
28021	agattactga	tcattgaaag	gaatttggaa	tggagaaatg	taactctgaa	ttataatgta
28081	attcagtaga	tgactatggt	ttaatttgaa	aacctgaatg	tacatcacia	atgtgtgtat
28141	tatcaaagga	agacagtcct	ataaagttct	aagccacaca	gtactaactc	cctgttggtg
28201	ttccttttgc	aaataaatac	agaaagggat	ttggccaaat	gagatcatga	aatagggtgaa
28261	caggtctgca	aaatatccaa	acaggctaatt	gcagagagat	ttatcagaca	taaaatatgg
28321	aactttgaag	ggatgtgggt	agggatcgat	taatggttaa	attttaaata	gaaaagttgc
28381	ttttatgagg	ttcaataact	caataatgac	aagactgaga	gaatatatta	caagttatca
28441	aaaagaataa	aatatttaag	tcactgtgtc	atgaagactg	acacattctg	atcttcacaa
28501	gaaacaaaag	caatacatag	atatagcaac	atttatttta	aaatatttta	ctgttaatat
28561	tctaatttct	cactactgat	attctaattc	atagagtatg	ttcaggatag	acttacataa
28621	taaaattaatt	agacatataa	taattagact	agagaaacaa	tgacactttt	tattgccttt
28681	gtttgccag	aaaaataaaa	taacagttgt	tttatgggaa	ataaataagt	atctgtgtat
28741	gaaaagcaaa	gtgcatttat	cttctctgtg	taatggctct	ttgcaaaaaga	taagaaaaat
28801	gcatgattaa	atgagattaa	ttacttcaac	aaaattgggt	gaggttttta	gtttcaaact
28861	tggcctttgt	ttttaggtgg	caggtagaag	ttcgctagat	gatgaatttc	caacctcatt
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29101	gatgcaaaac	ctggcctttg	gaaatgcttc	ttaccatatg	cttgttaggt	ctgtcctaaa
29161	tacagtaacc	tatgtagaac	acaaactaca	aaaaaaaaaa	aaaaaaaaaga	aagcaaataa
29221	ccagatggct	ttgtggtacc	ctgtcatcct	aattgactca	cagtgatgac	tcgttccttc
29281	atgggaaaca	ttttaaaagg	acttcgaaat	tggttcaagaa	agaggaaatt	ttgtgcaata
29341	tagtttttagt	gttaagtgtg	ttttaggaca	tttttcccct	aaaaattggg	atttatggta
29401	agtttctatt	aatcagccta	tttgattagc	aggaatagcc	acagtatgtg	agatagctat
29461	gtgtttccat	gtagtttact	acatagcatt	ttttttttca	atcacaattt	aaagtatcaa
29521	atctttgctc	ttttgttaact	tgactctgag	caggaaactac	tgatatgtta	tgtagttata
29581	atactattct	ttaatcctag	atttggaaat	ctctgtctac	gtgtatgaaa	ggagggaagc
29641	agctataaat	tagaaaggag	ataggaaagt	gaagatattt	actagactct	gcctttgctt
29701	gcagttctct	ggcttgattg	aggaggttct	cactttcatc	tttatggtaa	atgatttgag
29761	tatcaatccc	actcaccgcc	tacaaaggaa	ttgagagaag	agggtaaaaa	tgacagcaga
29821	agaaatcagc	tattcatagY	tgaaggattt	aaatgacaca	gtttatctgc	taaacaccaa
29881	gcaaaatgca	tttagcttta	ttttcacagc	ttaaaattaa	ggtcaaatat	gtgaccatga
29941	ggaagtaatg	cctttggcat	tttcaaggta	atgttttttt	gggaaagatt	cagtgaacct
30001	agaacaaagc	cctggccaag	gccccaccaa	agtgttgccc	acatagaagc	cacacaataa
30061	ataatttttg	gttgaaaaaa	atataaatga	atgcataaag	tatcttctct	atcagcaaga
30121	actaatttta	aatacatatt	ttttttttca	gggacttttg	ctaaaaaaat	aaactgtcaa
30181	aggaactggc	atttgcgtgac	tggactacag	cacatctcga	agaatctgca	gactgaaacc
30241	ttcaaggcat	tcatgaaatg	gtcttccctt	agttcccctg	ccttttccac	tctttctgcc
30301	aattggattt	cacactggaa	gttcaagaga	tgacatcaga	aaacagaaaa	gccagtgagg
30361	aaggcaagg	ataaagaact	ttcagggaat	actcacatca	ttaattcggg	cagtggtggt
30421	caaagcaaat	tctgctgttt	cattggcttc	actaacataa	ttacaatat	tttcatagac
30481	atttgatgca	tccaaagcct	tctgtaccag	cccgttcata	tctgaactgt	gcaacttctt
30541	gttaataaac	aaacattggt	atcttctcct	cttaccttct	tggggaatgg	ggccatgttt

FIGURE 2-I

30601	aatgcttgct	ttttaaatc	ttctaggatc	acagatgctt	ccttcctggt	attcaaagtc
30661	acctagtgtg	gcaagggttt	cttgagggtc	acacctcctc	tgcattcttc	tgtctttgct
30721	gaacagcatt	ttggttctct	gacagctgcc	tgtctggcag	tagcagcagg	aaaagggaat
30781	gacgatttaa	aaacagccct	ctgcacttct	tcttgccagg	gtttgtttat	gtgatggaag
30841	tcaggcagag	gaatgaacca	ttatgatgac	tacctagtgc	ttatccaaat	cagcattggt
30901	atttcctttc	tgtagaggaa	gccaaaggctc	taggagagta	tgcagagctt	ggccagggca
30961	cgtattgtca	aggtttggtt	cactctcgag	gcctggctgc	atcctgggcc	tcaggagtga
31021	gacagcccca	gcccttcctc	agcacacagc	cccacctcag	cccacctca	cccctgccct
31081	ttcacacSat	agtctctgcc	tttgccctc	tctggcctgt	gtaaggttca	tccaacattt
31141	actgagtacc	catcacacag	ggtacttgca	cacttgca	caggggctaa	taatgtgaga
31201	tataacagga	ataaaatata	gaaatgcttg	gtataccatg	cctggcatct	gctaactRtc
31261	aggggtttatt	attataccta	caccatttcc	tgaattggga	ttttaaaact	ctatgtgtac
31321	ccgcataatt	tattttattg	acaaatactt	ctactgcctc	tgtaataata	actctaacct
31381	ccacttccgc	agttcgtcta	aatcctttgt	cttaatttta	ttcagtctta	aatccacca
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31501	agtaacttcc	agaaggctct	ccgtgaccca	gtatatgaca	ttgcagatcc	cacactggct
31561	cctgtcttca	aaccgcctga	cctgttgagc	tcggtaattg	ttcctcaatc	tcagcatcc
31621	agttccagtc	cctgtgtgct	cccttagagg	gactttctct	atatttcttt	ggctacttcc
31681	ctctctgtta	accaagtcta	taatcattct	acccctccta	caaaagggct	gactcatcca
31741	ttaggcacag	cgttttcatt	tttttttcaa	tcagaaggaa	aaaatgagga	taacaataat
31801	aatggtatta	atctttatac	caatgcagac	atgaaataaa	ggttttactt	tttctatgga
31861	gaaaggaacc	caccaaggca	aaagtgtcta	gggcctatag	aagtcattgg	gctctgtctc
31921	acagagggga	gtctaatac	aatactcact	acctgttctc	ccccacaacc	ccttctgaga
31981	aaatggcctc	agatagcaaa	atctggggaa	ggcagacaag	aaaacatttt	ttaaaaagg
32041	gacaaaagaa	acaaaatggt	acaaaatatt	attaatattt	taaaattttg	ctggcgagag
32101	tggtaaagt	taccaaagat	cagtaaacaa	agcctttatt	actttgcttt	taatactagg
32161	cacagaacaa	gtactaactc	agtattcaaa	ttaaacatgt	gctattgaaa	tggaaagctt
32221	ttaatgaatt	ttgtttatct	ttgttcgagc	atagcacgta	aatcattgtg	tacaccagac
32281	agatatggaa	ggatactcac	cttttgatg	aagatgtctc	taagttgaaa	tgctttcatg
32341	aatatatagt	cagaaatatt	ctaaatRcaa	aaggacttga	gggtgattga	tattttggat
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32521	aaaatgacaa	aagaataatg	aagagagcca	taagatggat	ctcaaaaaca	acattctgct
32581	aatatagtat	attatcaaaa	tagtggtttt	tctaagctcc	attttattgc	cttcatcaaa
32641	agctcatggt	tctaggggcca	tgataccgag	tggtgatggt	cactgtctca	ccactgaca
32701	caccaagatt	ttatatgacc	tctctcttct	ttttcttctc	tcttcgtagg	agatttggaa
32761	gagttgttga	aaattttggc	aatcaagaat	aagaagggtga	tttatatttt	gaacagaagt
32821	taatatgtgt	tcttatttta	ttaatgacct	ttactgggtcc	ttttttccta	gtctttctct
32881	ataatgatct	cattatttgc	ctattatttc	agggtcatga	attcaattct	gatctttcag
32941	tacttttcag	ttaacattaa	ttgagtgtcc	aagagggtgtg	tgattctatt	ctaggtgctg
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33061	ggcattgttg	agtatttatc	agaagtcagt	tatatggcca	attcccagcc	agttttactt
33121	aagacacttg	ggtgtggaaa	gataatgctg	tctatgaaat	aaataggtaa	tggttagaatt
33181	agaccttcta	aagggatctg	atttatttga	caatgtttta	tacattgtct	ttggtcatcc
33241	tactaaaaat	tgtggaacag	acacccccct	cttcccggaa	cacagacctt	taatatgaca
33301	gatttttttt	aaataaaaaa	gaccagctcc	cccaacaat	tgcaatgaac	aatgatggac
33361	tctcagatgg	aacaaccaac	caaccaacca	accaaccaag	caaccaagga	accaaccaac
33421	caaccaacat	atcaacacat	aagcataccc	aaccttaatc	aacctggtaa	aattgtatcc
33481	cagtagttct	gacatatgga	attgaatagt	aatattttat	tcaccccatg	tagatatattg
33541	cattttctaaa	accaggatat	tacctgtcta	attcatttagc	ttcttggtga	aggtcctgtg
33601	catggtcaat	agcttcttgg	actaaatcat	ggctgaggtt	acttaggtta	gatagtttta
33661	cttgtagttc	Rcttttggct	ccatctattt	ctgcataaat	ccctgacgca	ttctaaagaa
33721	aaaaatttta	ataaatacat	tgaatttaga	agaacttaaa	acatttttcc	taggcaccaa
33781	aagataatct	ctgttctttc	ttattatgaa	ggtcagtaaa	tttcagtga	ggaccacata
33841	agtctaaaaa	actgtaagta	tatgtctatt	tatcccgcac	tgccagctct	ttcttctgta
33901	ttgattgctt	ccctagctag	cattcacac	ccagaaatgc	tctaccattt	gagacctaaa
33961	aactaaaact	aaactaaaac	cttcaattat	ccacacatgt	ccctaattgt	actacaatac
34021	ttttctgctc	tcttcatagc	aacataattt	aaaaaatgga	agttgtttat	atatgttgct
34081	tctattttct	ctcactttat	atttcttatt	ttgacctagt	cctgtctgat	ttctactcca
34141	ttacttctacc	aaaagagaag	ttaattacat	ctaagttact	aaatctaagt	gacatcattc
34201	agttttctac	tgacctttca	gttacctttc	aggtgactga	ctacttccta	aaaatcacct
34261	tgtaacacag	gctctcttgg	tttttaatac	aaccacagac	ctacgatttt	gcttaaagat
34321	cgtgcaactg	tgtagacgga	tgttcctgca	aaccctgtgag	tttcagcctt	ggctggcccc
34381	tcaatgctgc	aaagagattt	gttctcctag	tcacccaaat	agtgattcta	aacattgtca

FIGURE 2-J

34441	tgattcctaa	gccaacattt	ccttcaccca	cccccattctg	attgtaaaaca	gatcacttta
34501	ttttcttttt	tatttgagg	tcataaactg	ttagtggggg	acacttcttc	cacacttctg
34561	atgtctcctt	tatatgcagg	gagcacagt	agtgaactc	cagacctctc	tacctcttc
34621	ctcactctac	tcctgtgaga	ggggagtgg	tgattttgtg	ggtaaatgtg	ggaagaataa
34681	ctctataggc	tctgtctaac	tccaccttc	tttgtcctgg	gagcaagctg	ccagcagaaa
34741	gcctgagttt	tcctgtgttc	ctccatgta	aaactattct	gggcagaacc	cccatctaag
34801	ccttacggtg	ttgcctgtct	gggtgggcac	agctgcttaa	tactgggact	gaatgtcagc
34861	taccccaact	ggctaagaga	cctaaagcca	tgctgtctgc	ttagctgctt	cagaaataag
34921	gcaacctcct	tggctctctg	atttactatt	ttatttatgt	ttccacctgt	ttagaacttg
34981	ggttctggaa	agggtcacta	tttattgggt	aactccctca	gagactccaa	aaccaatgaa
35041	caggtatttc	cccagctttt	tgcaaccagc	ccccagccct	tccccgcaa	ctctatagat
35101	gtattttatag	ctacacctac	acaaaaattt	ctctccaatt	ttaagaggaa	aatgttctatt
35161	ttctgtataa	agcatgctgc	cccattgtct	tggtaacccc	gttattcatt	cttgctttct
35221	agctactgac	tcttctcaga	tataaacatg	ctcaagtatc	tcccgctcaa	aaacaaaaca
35281	aacaaacaaa	caaacaaaaa	accttattct	ttcacttttag	gtcccttctt	agctttttct
35341	cttgctttga	cacagtgcac	tttacagaaa	tggttcttgc	caagatcacc	aacacctggc
35401	cccaaatctc	cagatccact	tgacattttc	ccatccctat	ttactggacc	catctgtggg
35461	ttgctacagt	gttgccact	gtctttgtct	aaaactcttt	tcttttctta	gcttctgtga
35521	ctatgctatc	tcctgggtct	cctctttccc	tgaccaagaa	agagaccgtg	aaacttggca
35581	tttgactccc	agccctttcc	tctccctga	gtgatctcac	ttctttctct	gagggcagtc
35641	tttgagtatt	ctaattccatt	ctccactgtc	ttgcaggaaa	ggtaactctt	ctattaagaa
35701	aatctgacca	tgttatttcc	cttctcagaa	tcagccagtt	gctttgcagg	caatgattcca
35761	atttctaagc	atgacatcat	cagctgaccg	ctcttctctc	accaatttca	tcaattctca
35821	tgaccoccaa	cctgctatat	cccatgggtct	aatcttgacc	aactgggtgt	tgttttaatg
35881	ctccacaatt	ttttctggtc	tcttacctct	gcaaatattt	tccctttctg	gaataatatt
35941	cctttatttt	ctgtctaact	tacctgaaa	gctctactcc	tcttttcaaa	ttcagctcaa
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36061	tgtttttatt	attcattcat	gtgtcaaatg	attgtaataa	ttttaagtga	ttattttaact
36121	catcacatca	tacaatccta	ggaggcagga	actgagttta	acttattttt	gtaatcccag
36181	aatgtagcac	aaagggtttg	tagtacaag	ggtttacttt	tatggaggca	gtattaaacc
36241	ttagccatt	ttggttggc	atctggggaa	caatactttg	aaaaaatgt	ttttaattgt
36301	ataagtgga	aatagacat	ggacatacca	cttttactca	ttcattccat	caacaaatat
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38161	aaaaaaatta	aaaacaaaca	aaaccagaa	aaaaataaga	gacagtgggt	gtacgtggcc
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FIGURE 2-K

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41881	tactgtgtgt	acccttttgg	gatagagta	agatgacaaa	ataatgtaat	tgctagtgtg
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FIGURE 2-L

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FIGURE 2-M

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48481	gcctgagatt	cttctttggg	tcttactgtt	tctaagactt	tacatatattg	ccaccataat
48541	aaacctgtat	gtcagtaatg	tctttctaca	gtatccacaa	taattgttag	cagaagttga
48601	tagtgacagt	tgtaggaaaa	cgacctactg	ccctttatcc	ctttttgtgt	cattagtccc
48661	tttgaatctc	aatgaagcct	tcagactgtc	tcttagagtg	tggttctaaaa	tgcatacaat
48721	aaaatatata	gaaattaaaa	ggagactaat	atatttaaaa	accaaattga	atataataat
48781	gtatatgctt	ctttactaat	cccttaacta	acaagatcta	aagggtggatc	taatagttaa
48841	cataattttg	agttattggg	gaattttaa	agtgtcatga	gatatacagca	gcagctaaaa
48901	tataatatgc	aaatctgtga	tttcttccat	tgatttgtga	gattaaacca	attgttttga
48961	gctcttccaa	tcaagagtgg	agtctatctc	tctactcctt	gagctctggc	tggtcttgat
49021	cagtaaaatg	gatatagacat	tgctgagctc	caagcctagg	cttaagagac	cgtgtgcttt
49081	tcattcttgc	tctcttaaag	ctgccgttat	gtgaacaacc	tggactagcc	ttgttgagtt
49141	aagacccac	atggaggggag	aggcccagcc	ttcccggcca	gccccagaca	tctgagtggg
49201	ctcaaccaat	atatgtcaca	tggagcagag	atgagctgtc	caggttgaat	ccagcctgaa
49261	ttgccaaccc	atgaaagcat	gagcaataaa	tggttattgt	tttaaatgaa	tacatttggg
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49381	agtgtgcaat	cttggtctac	tgcaacctcc	gcctcccagg	ttcaagcgat	tctcctgcct
49441	cagcctccct	agtagctggg	actacaggca	catgccacca	cgcccagcta	ttttttgtat
49501	tttttagtga	gatgggggtt	caccacactg	gccaggctgg	tctcgaactc	ctgaccttgt
49561	gatccaccca	ccttggcctc	ccaaagtgtc	gggattacag	gcatgagcca	ccacgcccgg
49621	cctgggcctt	gttataatag	caattgtata	ctgatacagt	gatcaagtga	tagattcaat
49681	aatactactg	tgatttgggtg	cctacactca	ttgctgaagg	aaatgtttaa	tttccactgg
49741	aggctaaaa	atatttaaagt	cattcatggt	cttcacaaca	tgaatgtttc	tggccttgta

FIGURE 2-N

49801	gcattcctgc	cttctcaata	aaatttcttt	aaatgtagtt	ctgggaattg	gtttccttta
49861	gtcttccttc	tactgtttta	tacgtttttc	accaactgct	atagattcct	tgtggcatct
49921	cagttgtttc	tcaggggctc	agaattgggc	ctgaatctaa	aaatcttggg	tataaagtca
49981	agttgtcctg	aatgattccc	tgtggccaca	tgtagattct	aaatagttct	gaacactgga
50041	aattggttgc	tttgattata	tgttgcccta	ggtttaatgt	ctgctattgg	accacaaaag
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50341	cagcagggag	agatgaccag	gcactagaaa	tgcaagggag	caagggctgt	gggcaaagg
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50521	gaaaccactc	ttctctgctt	cccatgcggg	gtcttcagaa	tggaactgg	ctaatagcaa
50581	gctgtctctg	ctctcatcct	catctgggtt	ccacagtgat	ttgagaatgc	taatatttag
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51121	tgagaaggaa	ggtatgtaat	tgtcaccttg	ttctactgca	gctccaagag	gaagcatttt
51181	atcttgctgg	cataaatgaa	attgYgtgtc	tgtgggtttac	tatgatctat	gtggttgacc
51241	agacaagatg	ggtaaacaaa	cattgggtgc	acataaatca	taccaggata	aggggttgta
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51541	tataattttg	gcctgtttta	gttttagctac	ttgcagtata	gattagaaaa	gggaaataca
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52261	ctcacccaag	gaaatcttct	ttatcctata	acagatgaaa	tctgctgttt	tctgctggta
52321	aattgaaggc	caactattag	tgcactatta	aaatagtctt	caagattatc	ctgcatgtat
52381	tgcaagttag	agcacaat	aagcaaacct	ccaagaggga	aggtacaatc	attcacaatg
52441	ctttaggaca	aagaaatctc	ccacagcccc	gctccttcc	tttcttctgg	gttggggccc
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52741	gaacatcaac	agatagtaag	tagggatgag	tgctcagaaa	ttccagataa	acaaaactga
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52861	gcaaacactt	aacagtagcc	attatgccta	ctgatgttaa	taacataagt	gtttccttga
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53161	cgtaaactct	cctggcatgt	gaaagttcta	taacacatga	aatcatccca	aaaataatgc
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53281	tattggggta	taggtgggat	ttggttacat	gagtaagttc	tttagtggtg	atttggttaga
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53401	tccccactcc	actcttccct	gcaagtcccc	aaagtccatt	gtatcattct	tatgcctctg
53461	cgctctcata	gcttagctcc	cacgtatcag	ttaggacata	caatgttttg	ttttccattc
53521	ctaagttact	tcacttgatg	gccagtttta	gaatgacaga	atgctataaa	atctggtgct
53581	attcctatat	catcagtcac	agttcagtc	caaccaactg	cctttcatat	gtaatttatt

FIGURE 2-O

53641	cttcRaattt	ttactgtatc	tcaagttgct	ggactagaaa	attgcccatg	tctgcttatac
53701	attttgacat	tgtgctgact	gaagagctta	aagtttcaaa	gagaaaaattg	ttgaaaaaat
53761	aggcagacct	tgaaatgcac	catgcttcca	gtggctcctg	ggtggtccaa	ccactgctga
53821	aattgaatta	ccacagagat	ttcaaggatt	attctcactg	gcctaacatg	ctgttttcag
53881	tgcttcattc	caaattccca	tcaacattga	tggcacttgt	gtacaaaataa	ctgctcaagc
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54181	ctgtatgcac	agcatggcg	acatgtactt	acttttggga	tttgaaggac	tgatctatgg
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54301	ttgtctgttg	cttttttggc	tcagctcttt	aaaaactgct	acaatacgtg	aaggagctgt
54361	ggggtgatct	gccacacaga	gcgctggtag	acccattata	cagagtttcc	tgaggatagg
54421	gaagtgggtg	ttttaaactt	ctctcctttc	atccagtatt	ctaccagag	gattatgcca
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56221	tttgggaagg	ttcttcacaa	ttgggctctc	gacagcttct	tcagcattat	ctcctcctct
56281	ctctgcctta	caatgaatct	tccacaaggc	cacagttcca	gtcccaagaa	cttagcacgc
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56581	gaagcatctt	gaaaacaggg	ccttattata	tttcaggata	cctagcacct	agcacactaa
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57061	ccaaaattca	tggttgttca	agtttcttac	atagaatgg	gtagtatttg	caatactata
57121	acctatgcac	atccccctat	atatattata	tctaaattac	ctctaatacc	taatgcaatg
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57301	tgaatacaga	gggccaaactg	tacttaattt	tctcctgcct	ttttggcagg	accagagatg
57361	aggttcagat	gcttttgatg	cttgagata	gcctactttc	cttttagtcc	tgtgggtctc
57421	tctgcatgag	ttgtcattca	ggtagcttct	gctgtggttc	aaggagtaga	agtggaggag

FIGURE 2-P

57481	atgggtgcagt	acctcctgag	cgcgccttgg	agactgtgct	ttgtaactct	gggctctgca
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57601	cacctctgcY	tgtagcccag	tgacactctg	accttgagca	cagtggctct	gggaacatgg
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57721	aagggagcat	cttttgagcR	ctgggtattt	atgaacacag	atggatgggc	atccttttagg
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57841	atttagaaag	ggaagtccag	acaaaacccg	tagctagggtg	gatgtaactt	gtgagatttg
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59521	ctattttctt	gtggatttga	gatttatact	caactcttta	aacgggctaa	tttatttttag
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59761	atgccttggc	aaacacctga	atgacctcc	taattaaaca	aatcaaccgt	atcaaccac
59821	cgcaaataca	cagaaaattc	tccacaaaca	tagcttttca	agaaaaacaa	tcaaaacgag
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60121	gcattgttga	tttgtatctt	tcttagggcg	tattggtttt	ctctttctga	caattttgtc
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60241	aaaactcttt	cagtgtgaaga	ggactcagag	tagagtgtga	ggctcttttc	tcaaaatagt
60301	ggggtccgca	ggctgctgca	gcctgatatg	aagggtgggg	tctgcagagg	ggactgaggc
60361	ccttaggggc	taaaattctg	caagctccac	tcactagacc	agggatgctg	gtcaggggct
60421	gggttgacca	tggggaaagg	gctccttttt	ctaatttgta	caaagggtaca	atataggctg
60481	tggttgggcc	tgggtgtctg	agccttagaa	ttttaatttt	gttaggtctg	gaagaactga
60541	ccaacccatc	agtattgatg	taaatggagt	atagaaatta	actttcctca	ttttaatgca
60601	agtctcttta	tttcagaccc	ctggctttct	cctttttcat	tttcgaggag	ttgggtctaa
60661	atgcggcttt	actgagatta	cctgggagtg	agcccttcaa	tcttgacact	gacttcctgt
60721	caggcataat	gattcctgtc	ttgaagtgtg	gcctttgagg	aaagagaatc	tgatgggttt
60781	ctggggcctt	ggatctgggt	gactcccttg	gSgggtagtg	tcttcatgtg	ttccaaYagg
60841	taatttttga	caagaacaat	ttcaaagttt	agaataaaat	tcacaccaag	attctatcca
60901	ggctacaata	caatttttgt	ttttgcttac	actttacata	tttggccaac	tgctatggat
60961	atcatttgca	cctccaaaaa	gcaatgagta	ccttagtatgc	caggtactgt	tctaacttct
61021	gtacatatat	caattcactg	aattctctca	acagctcatg	agatagaggc	aataattatt
61081	caggaaactg	aggaattata	gaggttaaat	aacttaccta	cggtcacaca	gctagtggtg
61141	gtcagagctg	ggatttgaat	acaagcaacc	tagtttcaac	gtccatgctc	tcaatcattt
61201	tcctaaattg	actaacaaag	caaaacaatg	tgctgggtatt	gaattccatt	ttccctcagc
61261	taatgattat	tatttttaaaa	ataticctttt	gttgtgatag	aagcccatga	tttagtgga

FIGURE 2-Q

61321	aagaaaactt	gtaaatctta	gctatacaag	gacctttata	tagtcatccc	ttggtagttg
61381	tgggagattg	gtcccaggac	cccgtgggga	tgctccagtt	cctgatacaa	aatggcctag
61441	tatttgcaga	taatgtatgc	acatcctcca	gaatacttta	aatcatctct	agattactta
61501	taataccact	tataatacta	acacaatgtc	aatgctgtgt	aaatagttgt	tacactgtat
61561	ttttcttttt	taattgtttg	attatttttt	attgttttta	taaaatata	tttctatctg
61621	tgattgggtg	aatctgagga	tgtggaacct	gtggatatgg	agggccaa	gtattactgt
61681	ttttgttttt	taatctgttg	gctgctttta	acttgtttac	taggtattaa	ccagtagagc
61741	tatgaggaga	aacaaggtgt	gtgtgaatgt	ctgcgtttga	ctgtgagtat	gagaaaatga
61801	gagagaatgt	gtgtaaataa	gaaggaaagg	tgggtgggtg	gtgggggtgag	gagagacaga
61861	gaagaagaag	gatgcttcta	gacaaactca	aaaccttgca	aattaaggct	aaggaaatgg
61921	tagccttgca	gtaccttttg	tggtaatgac	ttaaacaagt	aatgtatggc	tgcgccaagg
61981	aaataagtgt	ttctctttcc	tcagtagttt	tgggcataga	tactagtctt	ttagtcattt
62041	catttcccat	ataacctctt	ttgtagacag	tagttcttgt	tttggcccaa	gctcatagtt
62101	acaatcaact	tttcataatt	tcctatgaaa	ttacttatgt	tttctatgtt	agacctacag
62161	gtctaacaac	ctgtaataca	ggtatgagac	tcagatacaa	aaaggggtag	aaggaattac
62221	tagctgcggg	cctgtgaagc	caggatgaaa	acagagtggg	aagtagaaca	ttcctgcgta
62281	ctttgaggag	gtagatgggtg	gcgttgattt	cattcacgtg	cctatgagcg	gcggccccag
62341	aggatacgct	cagcaccccg	gatttgcctt	cctcgatgga	gagcgctgct	aaccgcagtg
62401	catcagtcag	gtcccagacg	cacttatcac	agcctggagg	tgaacatttt	cttcagaatc
62461	acaagtcaaa	agcatgctaa	aggcaggccg	ttttagcaga	acataaatct	ctatttccct
62521	ggtttaatacc	atttttattt	ttgtctcatg	aagagctgta	attctattct	ttcactgctt
62581	tagtatcttg	cttggcatta	gctagtgaag	atggctattg	gctagacgct	cctcctctcc
62641	tattagcttt	tctcagtatt	caggggctag	caccagcctt	ctccccaccc	cagggaggggc
62701	acagctcctc	ctcacagccc	cacttcctgg	caggatgaac	acttcagcac	cgggagggtct
62761	gaggttatcg	ctgcgagagt	cgcttctctga	catctgatga	gggtaccaaa	gttcaggctg
62821	aacgtgggca	catggggagg	caggctccag	ttcctcatca	cttctcactt	ttcacatttg
62881	agttcctctg	accactgtca	tcacctccag	aaccagggc	cctcctgtga	cacactcaca
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63001	atctctttcc	ctcagatggt	gctctcttct	agagacgtga	taaagggaga	ctggcggtgt
63061	aatggttggt	aatatgttaa	tttgttattt	gaagtttaac	atggttttac	ttataagctc
63121	tctcaaggga	atgatcccca	ggcagtactt	caggcttggt	gggggagatg	cttaggacca
63181	ggcaggcatc	ttgatgttct	taaattggcc	ttgtctaggg	gccacctgtt	caatcagggt
63241	gtaaacttgg	cattacttgt	gcctcacatc	ctatggcatc	ttctaagatg	taatccaatg
63301	gtaagggttaa	tctcgtctgc	tccgagggac	tgagagacca	agatacatct	gtttggggga
63361	ggggatgcct	actattaaaa	tagtttttaa	accaaaagt	ttgttcctag	tgtaactcct
63421	catgatttaa	ttaacaggag	agccagagaa	aaccaggaga	gataaaaagg	agttccattt
63481	tgtaaagcct	gaatatttac	ttctgctccc	acttcagatt	tgaggtaact	tgggagaagc
63541	cacttaaate	tcttggatc	tcagtttccc	caggtgttgt	aaattgtttg	tacgtcgtat
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63661	gttgtgtttc	tgactttggc	tttagccatt	aggtaagatt	ctgaatgtaa	agactggata
63721	aaatagagct	atgcaaatgt	aaaccaccca	tttgccctag	ggaatcaagt	ggaccaccaa
63781	gtacttgggtg	caggctccat	ttgtctgaggt	gcagaaaagg	ttaagtccag	gggtgggact
63841	cagcagtttc	tagagagtga	tattgcatag	cttttcttaa	tcccacacct	gcagcacatt
63901	agagaaagtg	gggttagtca	atcatgtact	gttattttta	cttatgggtg	ggcagtcctt
63961	gcctgtaggg	ggttcaaaac	cttcttccaa	gcattctccg	gttacactgt	cacatgggcc
64021	tccccgcgca	ttgcacactg	tgggaaacaa	aaacaagaga	cgagaaatgc	acttcttaat
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64141	atcaatggga	attaattaca	ttcttccttc	agactgtgta	gaatctacga	tacagagatt
64201	acgcccttca	tccgattaag	ctccagccca	atgagatttt	caaagggtgac	cctggggcaa
64261	attgaatcta	agttttctag	gatttctctc	ccaactcttt	gggatttctga	catgacagtg
64321	caattgcttt	agtccaaaaa	tgtcctggta	agtttcacaa	gatactaaat	gaccacgagc
64381	tcatcattca	actggaaatt	gaaagccatc	ccttccttgc	agactgatac	tccagtttaa
64441	tttaactYgg	gggttgatca	ttgccagggtg	tgaggggagga	gcagcttagc	aaggagttag
64501	tgaggaggcc	caggagcgat	tcttggctcc	cactgcgctt	gacccttggc	aagacagact
64561	ccaaacctcc	aaatgacagc	tatgagtgca	ataagaataa	tgtgctgcaa	ggaatcagga
64621	acatttttcc	atgaatttag	aagacgtggg	agccatttat	tcactctactg	atgattttct
64681	gtaatgcctt	ttggaaaaag	caaaaacaaa	agcccaatct	catcagactg	ttcaatttcc
64741	actgagtttc	tgggtgggaa	ctaatttgta	atattttaag	aggaattctc	ttaccatcta
64801	tgctagcaat	taactggaat	agaattgtgc	atttcccccc	acttcttaac	tgtctttaca
64861	gaataatcat	aaaaaccagg	ttcattgggag	atctatttat	tacattttcat	gtgttttaatg
64921	ttccacaaaa	tgcaagttaa	ttaaatcttt	cagcaagatc	atgctttatt	gcttctaaaa
64981	ttagcttctc	ttccaagagt	gacctgcac	ttttagtatt	aaacacaaat	ttagtaaatg
65041	ttttgagaat	caggatgtca	acctttcagg	ctttgatttt	gccaacatta	tttctgctgt
65101	ccgccttctc	tctcttttagc	ctgactagac	acagtgtctc	ttcctttctg	ctgtcattct

FIGURE 2-R

65161	cagtgttatg	cctctatgca	cattgctttt	ttgtagacat	gtttactttt	attgtgactt
65221	ctgcagaaca	tatatgttgc	atTTTTtKa	tttaaaactc	cttactcctt	gaatcttttc
65281	aagtggaaat	ctgtttcagt	gaaagaattc	cttatagagg	catgccacag	gagtacaata
65341	tttcctgctc	tcccactctc	ccctcaaagt	cacataagag	taagacatac	tcaatctcag
65401	ccttccctgta	ctcttagagg	aaagcaatgt	cacctcactt	ttgaagagct	tcactctatg
65461	tggcaaatgg	atgaataaga	tYtgTgcgTt	tcagtctaac	tgaagcctaa	ccagaaagtt
65521	ttctatgcta	tctttgaaat	atttacctct	tataatttga	ggaaattgga	ggatggTggT
65581	gattaaatgg	tacccttgac	ttgctaactc	atTTtatgga	aatcttgatt	ttaccaaaaca
65641	taactgaacg	agagatatag	ccctctggaat	aagaaaactg	atTTgaacca	tgcaaggTtt
65701	ctTTTTcttt	ctttctttct	ttctttcttt	ctttctttct	ttctttcttt	ctttctttct
65761	ttctttcttt	ctttctttcc	ttctttcttt	ttctttcttt	ttctttcttt	ttctttcttt
65821	ctctttcttt	ctttctttct	ctctttcaga	gaagaatctc	tctgtcacac	aggctggagt
65881	gcggtggcac	aatcttgact	catggcaacc	tctgcctcca	cctcctgggt	tcaagggatg
65941	ctgggtggga	ctataggcac	ccaccaccat	gccagctaa	tttttgatt	tttagtagag
66001	acaaggTttt	gccatgtttg	ccaggctggt	ctcaaactcc	tggcctcaag	ccatccaccc
66061	acctcagcct	cccaaagtgc	ctggattaca	ggagtgaGCC	accatgcctg	gctgaacca
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66421	agggtcatgc	tggccaggca	gctggcttag	tatttatgat	actgcacctg	cacagttctt
66481	ggctatcctg	gcgtcccat	agtagccagg	agcgcaacgt	tcacacttga	atccRgtggT
66541	gttgcgtaag	caattcctac	actggccagt	gacttcatca	caatcttcaa	agatcagggt
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66661	tccatagtaa	ccgggagcac	atctgaaggag	gaatatcaca	catttaaata	tttagtctca
66721	tggTttttct	tccttttaat	cttctttctt	acaaagaaga	aagatgtagt	ggatatttat
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66841	ttttaaggaa	ctaccctctc	ccattatggt	atagatcatt	tggTtcactt	catctgtagg
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66961	tggTgtacac	aatgatata	tgatgggtgg	gaccagatat	gccaaaggta	ctgcaatgag
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67501	aatggagact	gaaatccatc	tagcctttgc	ttgccttgcc	aagctgtgca	ctctagggtga
67561	ggctgtctct	gccagaggga	agaaatgcct	ttccctactt	ttcccaaagc	tggcgtgcag
67621	ggcagcagag	gccctgctgt	gagtggtggg	cctgtaggcc	ccatgtaagg	gaagagctgt
67681	tactaggctc	aagttgattg	ttgccagcct	agagccttga	gaggatgaag	gacctatgtt
67741	gccatatttt	atTTttggag	aaaaaagtgg	aaatttggtt	gtttatgtga	aattgcaatt
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67861	ctgattgtgc	actctctttt	gctgtggact	ctaaactagt	gtggaagatg	ggccaactgg
67921	agctgcagac	actttgagag	tagctggaaa	gaacatgtgg	tcacaccata	atgggattga
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68161	tggccttggg	agtggaaagg	aagggagagc	tttccaagga	aatcaacaag	ccttgccag
68221	taataataaa	acactacatt	ttttttaaaag	gattcccttt	aaagtaaggg	aatcatgatt
68281	cagaacattt	gaaaaacaga	tacataaaaa	aaaatcacat	ctgtaatccc	aggaccctaa
68341	aaaagtMact	gtcaacattt	tgtgtatgtt	ccttcagcct	ctgttcccat	gtctcagttt
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68461	ctcatagcct	catctatgtg	agtttatTTa	gttaccacag	acaccctggg	agggagcca
68521	cacaggcctg	gcattctggg	aggctacttc	agttttccag	ggtcacatag	ctggaaagtc
68581	acagtgcaag	gtccaaacct	tctgaccctg	gagttctttc	ttttgctcca	ccttggaacca
68641	cactgctgct	gctataaatg	aatgagtggg	ttcatccaac	acaaggacaa	ttcatgtcca
68701	ttttatgtaa	gacatagagg	gagacaggat	gaagaaaaac	acatagccca	ttcttctgaaa
68761	gaacaggaaa	taaattaacc	ataatgtatac	agaatatgaa	ctctagaaat	ctgctctatg
68821	aaaaagatgg	ggatgaatgt	aaattctaca	caaccacaaa	agagacaccc	caagaggaaa
68881	tattcaatga	gtgttgTtat	tcgcactttc	tcatgtcttt	gcacctcaga	tttataggcc
68941	tgcaggTccc	taagccagca	taaattattc	ctctatggaa	cttgtggctg	gattgaattt

FIGURE 2-S

69001	ctggcctttg	ctgaagtcca	ccaaacagag	aatattaggc	tctttggccg	actgaaatgR
69061	gactcagatc	taccagctca	atgtgtggct	gggaatctta	aggtctggga	gtgaaggggc
69121	ttgccaagc	tcatagaggt	cagatgccag	taactttttc	atttaattcc	actgcatttg
69181	ctctccatag	gaggtccccc	ggtcttttac	aagagaaaac	tcaaattttc	tattctgtaa
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69301	tctgggtgta	ggtttagagg	aaactctgaa	gttttagtca	aaactctgga	ccctatggat
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69421	tatataagaa	agctagaagg	cagagaagct	aaatgacttg	ttcattgctg	catagctcaa
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69541	gaactaatta	ataaattagt	gattataaaa	gtgcccaagc	ctgccctcaa	agaactaaca
69601	acaaagacac	aaaagcacca	gtattttgag	ttagagtaag	cattggagcc	ctggtgccca
69661	gtagcctggt	cctatttttt	cttccgtaat	ctcattttcta	gtctattaat	gacttgatcc
69721	atccaaggaa	aacagaactg	gtaagtttat	ggctcaaagt	aaaggattgt	ggcatatgaa
69781	ctttgtcatt	ttggttagtg	atttttattat	ttgggcaaaa	tggaaaacca	aaagatatga
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70381	aaatcattat	gattatcatc	ttcatctctg	atgatactgt	gttctgcctt	ttctgttagg
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70501	aacaagattc	acatgatcaa	tcacatgta	gtcttagcat	gtttctcact	ccaccacaa
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70921	ttcccataca	tgtgtaccat	gtataatgac	caaatcaggg	taattaatat	ctcatcacct
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71041	aaacagaaac	taaattatta	actataattca	ccctagaatg	ctgtagaaaag	ctacaaattta
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71221	atgagctcaa	tttttttttag	cttccctcata	tgtggggagaa	catgcaggat	aaaaaatgtg
71281	ggctgcttca	cgattctgca	catcacccct	gcacagaggc	catgctaata	ttctctgggt
71341	tgttccaatt	ttagtatata	tgctgcccaa	gggagcacct	catcttcaaa	atgttcttag
71401	ttgttctctac	tggtatgagg	atgagaattg	caaaaactcta	caaggcttgt	gcatttttaca
71461	attatttgca	tcagaagaca	acttccattt	gcaatctcta	ttcagccaga	ctcagtcaac
71521	tctgggtcac	cctttccatt	ttcctggaat	ggggtgggag	attgggggta	aaacagggca
71581	aggaatgact	gactcctgtc	actacatagt	acctttttta	aaggaacatg	aaaagtgtctg
71641	ttgctatttc	ttattgagaa	aaaataattt	tacttaaata	aaaacaactg	aggccttcaa
71701	catgccagat	agtgtgctga	gggaagaata	gacagaggag	ggataaggga	tatgatgctg
71761	tgtctgtcaa	gcagctcata	gtttcacaga	taaagaagcc	attgtgtgat	tctgagcagg
71821	tgacttaaat	tatgtcgcat	ttcttcctct	gtaaataagg	atgaaaatgg	tattccatag
71881	gattttttggg	gctcttttga	ggcttaaatc	attgtctgta	aagttttttac	aacagtgcct
71941	gacataccac	ccagtaagta	cttaataaat	gttattattt	ttatcatcat	gatcatggtc
72001	taaataacaat	acaatgtgga	aagcttgcca	gctgatctgg	tggatttggg	gagtagcatg
72061	tccaacacgg	ggagttttaa	gtgtgaggtg	ggagaagggt	tttagggagg	aaagacagggt
72121	aggggcccaga	gcaggccaat	attcatggac	ctaattgtta	agacaaggca	ggtgggctgtg
72181	tttgagctgt	tttttttacac	agtagtgtaa	gaggtagagt	aagtaaaaca	tgttttatgt
72241	tttagaccag	tgtttcgcga	attttagctg	aacatggatc	cttttaaaag	gaaaagcatt
72301	ttcatgtaat	accccttcca	gtgttgctct	aaattatctt	taaatatttc	aaacattgaag
72361	ctaggtagaa	actccttatg	tctatggttt	ttacatgtct	tgaaaaccaa	aataaatttt
72421	caaatacaac	ataaataaaa	ctatgaaact	aatcaatttc	agattcacat	taattcaata
72481	attgatgttg	tcttataacc	aaatgtccac	ttgcaaaatg	atgtggtaga	gactgcctgt
72541	gttcacacatg	caaatccagc	cagtgtccat	gtgacgactc	atgtctctca	ccaattttca
72601	ttttgggaate	tttagtttta	cagtttgcct	tgtatgtcatg	ccacttgacc	tcaattgttc
72661	tgtaatgtgt	cattgacaga	ctgtcacctc	tgttattttc	tcccagcact	gaggagatc
72721	ttctcttatt	ataacgtgac	acagcagaaa	gtccagaaca	tgtttcaatg	aatgttttcc
72781	ttaaagttat	tattaaaatt	aaacataaaa	ttaggaaaaat	attcactgag	aactcctgaa

FIGURE 2-T

72841	ccttcatttc	caaggacaac	caaggttctt	aggtcacggt	ttgagaaata	cttccctagt
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72961	ggtgcatgag	aatccgacgg	gaagtcaaaa	tacaggtcct	gggcctcagc	cctggatatt
73021	ctttttcagt	gggtggtgaa	ggggagtgg	ggagggctca	ggaatccaaa	gttttcctgg
73081	agacagttgg	acacagattt	taaaaccacc	acttgactca	atgatctcta	aagtgcacaa
73141	agacctagca	ggttcttggg	ttggactaat	tattaccttt	gtttaaaaca	gatatccata
73201	caaatcagtt	gcataattag	aaaagctctt	ttggagaggt	tcaagttcac	aaatacattg
73261	aaagcacaga	ttaggcgaag	gttaactcag	gcaacttaag	agcttggctg	ttcaagcaga
73321	aaccctcctc	ttaacccccag	ggtcaaaaca	atcaaaaagca	gcaaagacca	ccgcaatttg
73381	gaagacatag	ctcttctggc	tcagtttctt	catctgcaag	atgacaaaat	acaaccttct
73441	ctaaggtggc	tgtgaagatg	aaatggccac	aatgtaaagc	aacaaggaca	taagttaata
73501	ttaatcagtg	gcactattta	gctcagagct	gtaatttcta	gctaaggaaa	ccgagactca
73561	gggaaatgag	ccaacgtgtc	ccaggaacac	aatcggcagt	ggcagaagtt	ggacaatgac
73621	caccatgact	catactgtca	cctgttaatt	cttattgagc	atttactcag	tgccagggtc
73681	cacactSaaa	actttgcagt	attatctcat	aacagtttta	tgagacaggt	aRctttattt
73741	tctccattct	gtacaagtgg	aaattggccac	ttggagaggt	caaagaactt	gcccggtgg
73801	gtcacaaaagt	ggtggagctg	agattcacac	tcacccaggc	taatgctcaa	atctcttctt
73861	ttcaacactc	tactttcact	ttccaaacca	gtgctcttgt	ctggagcctt	ccactccagc
73921	agcagatctg	accagcctt	actgggtaat	ggcagagctc	atgagcatcc	tatgtgggct
73981	gaggcattta	tcactctgtaa	ttccttgtca	gaggtgggcg	tgcatcctg	ctgatgggtt
74041	gggatgacag	aacccttctc	tgaccctctg	tgtgatttta	caggactgtg	cccttagggg
74101	ccaggtgatt	tcacttctgc	gagctttgca	tttggtcagc	agggctctat	ctaaggccat
74161	taactctccc	cgtgggggcc	atYgaacacc	cattagcaat	actgcttggg	cattatcaaa
74221	ctaaattgaa	tttaacctca	gacactgagg	agaaaaaact	ccatcctggc	tgattaacaa
74281	ccgccacaga	cctccagtga	gccagaaaa	gagtaaatca	ggtgcctcct	attcctgtgt
74341	ctccaagtaa	ggaatatatag	gataagtggt	tcacaaattt	caatcaacc	aatgtaatcg
74401	atcatctctg	tcagtccttc	ctaatagatg	aaattcatgt	ggaccctaag	ctcgctttcc
74461	ctcttatggc	aataaataaa	taaattcaaa	aaaatccaca	atcctttagt	gaaataatta
74521	tcacattttt	gcataatttaa	taatcataat	aacaatgcct	tccaagtgca	aagatttttc
74581	tctgtatcac	agatactgtg	gctttttttt	ttttgagttt	cagacccact	ttttgagaga
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75361	tgggtatata	cccaaaggat	tataaatcat	tctactataa	agacacatgc	acacatatgt
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75541	aggatgagtt	tatgtccttt	gcaggacat	ggatgaagct	ggaaaccgtc	attcttaaca
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75721	gggggcaagg	ggagggatag	cattaggaga	aataccta	gtggatgacg	ggttgatggg
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75901	gtaaatacca	gccagagatc	cagaaaacct	aaactcctgt	ggaatttggt	tacttttttag
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76021	taattttattg	ctctattgac	aaaaggtgat	tcacatttta	tttactgagg	aaacctcact
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76141	tacaaaacc	atctagagaa	ctttttcaaa	atacacatcc	tcaatttctt	ttttccctgt
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76261	tatctggggg	atgggattta	ggaaaacttc	cctaaggggt	tttgaaatgc	agtccctcaa
76321	ccactcttaa	gcactctcct	caggaccac	tgaatgggag	tatggcagag	ctgttgagtg
76381	tgagaaacag	aaagcttctt	ttgaccaca	cagaaaaatg	agaattttat	tggcttacct
76441	ttcacagtta	ggtccagcat	aattttcgtt	acaaatgcac	cgaacagctc	catttttctt
76501	atagcaggat	tctgcaaaac	taaaatttga	agcaaatatt	ggaagtcaat	tccatacatc
76561	accaaagaga	ctgtcttaac	tttttatcag	attacctcta	tgttggtccc	attaaagttc
76621	taatgggtgc	aatcattttc	tttattttaa	cttgtacaca	tttaccttgc	aggaaaggtt

FIGURE 2-U

76681	aggctagcag	gccccaaaag	aaaatgccac	ttgtttggtg	gaccatttcc	caggtcctat
76741	atatatatatt	caagcactag	tccaaaacat	gtatcccaaa	gctggaaata	aatgatcaa
76801	attctacctg	caatttttga	tttataagag	aatccccttt	tatttccatc	actgtctatg
76861	tagtcatttta	aaagtttccc	ctttttttct	gcactagaac	ttgtccagtt	ttaaagggaa
76921	ggaaccagtt	ctaaactata	taatctccac	agaattataa	tttctttcat	gtgtacttta
76981	aatattggaa	ataaggttgc	tgagactggc	tgcgtcgatg	aaagtcccag	tcaagtactg
77041	cagcaaaaaca	taggacccac	cataaaaagg	ttttatccca	tggaaacctc	tctctttctt
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77161	ttgggttagt	ggaatacata	agtctcctca	ctattaaggc	aaggggaaatg	gggttatggg
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77281	gtgtgtgtgt	gtgtgtatgt	aaaattttta	ggacttttaa	attagctttg	gctttggtac
77341	tataacaacca	ataaagtgtg	acccgctgct	ctcttgttcc	tttatgtatc	agcatttctt
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79141	cttctcagtc	catagggat	gatgttctaa	agggtctcata	tcccaagacc	aggtaattta
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80401	aaaacagtat	ttagcctttg	gttcctggca	cagactcctg	taattcttgg	aatttcctga
80461	gggaaaagac	tgtcttttgt	tattcataac	aggcaccttt	caaccatatc	tgagtttatg

FIGURE 2-V

80521	ctaatagaagt	gactcacagt	ggacccctgg	ataccttgag	agtgggagcc	tatgaccaga
80581	ggcaccaccg	aggaaccaa	catgtaattg	gacgttggtga	atttcaaccc	tccccacccc
80641	caacctccag	ggaggagagg	ctggagattg	agttcagtta	ccaatggcca	atgatttgac
80701	caatcatacc	tacaacatga	aactttgata	aaaactcctg	agcaacaagg	cttggggggc
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82261	atttcagttc	agagtgtata	tcagaatgat	caaaccctgg	atgttccaga	aatattggct
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83281	gccaccctca	cccctgccat	tttacatctg	aagagatgga	ggtgcagaaa	gattaagcaa
83341	attgcccag	gtcacacgga	tagtaggtgt	caaaaagtga	attcaaattc	aggaaatctg
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83761	taacataatt	cccttacagt	tcttaatact	gtgtcttgtg	ctaagtcagt	ctttggaaat
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83881	gcaaaataag	gaaattaaca	tgaacccaaa	gctaatacaa	agttgcagca	atctctcatc
83941	ccaggaaaaa	ccaatgagcc	ttacccaaact	accatgaaac	taagccataa	acaatctggc
84001	agggctgctt	gtaggctggg	gttaaatttg	tctgagttct	tgtgtggacg	atgaagcccc
84061	tctctgcaga	agaaaaacag	cccattgtaa	gatgttaggc	cattctttgt	gccccaaagt
84121	actactgtgt	tgcaaaaatg	agctaattcc	caattctgtc	cccttatggc	tcgatagatg
84181	ctttagattc	cttgtcaggg	ctttaattct	gccatggcag	ccatgggaag	cagtgaccct
84241	caaaagcaaa	gccaccaa	ttcttttgcc	ctctaactgc	tcagaatgca	agtatgaact
84301	ttcctcatct	gccttctttc	aaaaggttta	ttatgaaact	ccctaaaag	cttcaatgca

FIGURE 2-W

84361	cattctggga	gattggcaga	cagagtgcgtg	gaggcagggga	gaaaagggtcc	ctagctcttc
84421	cactttctag	ctgggtcaact	ttgaacaagt	ctcttgacct	tcctgggtttt	ctattccctt
84481	atctgcaaag	tgatgattta	gactagatgg	Sccttcaggt	ttcttctagc	tctgataatt
84541	ttttactttg	agattgcaaa	atgtcttctg	ttttaccttc	agtgtctctg	catttaaaaa
84601	acagaaaaca	aatatgacaa	caataaaaaa	ggtatgttgt	tgtgaggtga	atggtttggc
84661	tctgggttcc	catccaaatc	tcatattgaa	ttttaatccc	cagtgttgga	ggtggggcct
84721	ggtgggaggc	gattggatca	tgagggttgt	ttctaattggc	ttagcgtgat	tcccttagtg
84781	ctgtcttgta	atagagttct	gagatctggg	tgtttgaaag	tgtgtagcac	ctccccctt
84841	gtgctctccc	tctctctctc	tctctccccc	acctccact	gcaggccatg	tgaagatgtg
84901	cctgcttccc	ctttgtcttc	catcatgatt	gtaagtttcc	tgaggcctcc	tcagaagcag
84961	aagcctgtac	agcccacaga	agagtgcgcc	aattatgcct	cttttcttta	taaattaccc
85021	attctcagggt	acgtcttttt	ttttttttta	atcaaaaagag	taaagtgaag	gcaagtttat
85081	tggcaaagca	taggaataaa	gaatggccac	tccatagaca	cagcagttag	gtatgacttt
85141	atagcagtggt	tagaatggat	taatacagga	ggaaaagttc	attttttaat	aaaactgact
85201	ccacttaaaa	atgaaattag	cattctgaac	ttttagccag	tggtaagaa	agctatatct
85261	agataatcga	ttgcagataa	gtgttggaY	tgccatttgg	acaccaactg	tgtctcccca
85321	acatgagaaa	tgatatctct	catgtgcttg	gtcacaggac	cagaataatg	taggaagaag
85381	gctcaaaaga	atctggttag	ccttctctgtg	tttgtcagtg	tgctttatgc	aagactagat
85441	ccatggatct	ctaagtatgc	ccagggaggt	caaaactggt	tctaaataat	actaagatgt
85501	ttcttatatt	ttgcattctc	attttctcat	atgtgtaagg	tgaaattgtg	tagaggctac
85561	acaacacaag	atatcacaca	gattctgcga	gaagcagatg	gcagaatcca	tcttctcta
85621	ttaagccaga	tattaaacat	attttcaagt	tgtaaaatat	gtttgtttga	taaaaacata
85681	ttgtcttaac	atggaattgg	tatattattg	ctattttcaa	atgaatttat	aaggattaga
85741	aaatttttca	gtttaaattt	caaatgccgt	aaatattggt	atatatagtc	cacattaaaa
85801	aaagctctct	ggtatcttta	ataatcctta	acagtgtaaa	ggtttatgag	atcataaggt
85861	ctgcaaacctg	ctctctgtgt	agatcaatc	ttagccaaact	tcaatgtgca	cgttagctccc
85921	ctggagatct	ggtgaaaatg	cagattatga	gtcaggatgt	ctgcatcctg	agggctctga
85981	tttctaaca	gctcccaa	atcatccatg	cagctgggtct	ggattacact	ctgacaagca
86041	agggtctaaa	taaaaatacc	taatatgggc	agcactgttt	gctagttaca	tacagggttg
86101	ggcctgagcc	tcagtttcta	gcataagaca	gtacatctta	aagaagtga	ccaagtatct
86161	cataacagta	ccataaagaa	gtgacccaag	tatctcataa	attacaaaat	taaaagtattt
86221	tgcatttagg	gtagcttggt	attttagtaa	cctattcatt	cattcactta	acaaacctga
86281	attaagcaga	tataatagac	aatgagccat	atctgttatt	aaaatgaaga	agacctgggt
86341	cctgcctttg	agtaactcac	agacttggtga	agaaaagaga	cagggtcaaca	aagaaacaata
86401	cagtgtgtga	aggctatgtc	tgagggtatgc	agaaaagtaca	tacctgttat	gggacaaaga
86461	tgagggaaaag	gcagctttta	gctcttccctg	agaaagttgg	agaaggctta	atggaggtgg
86521	tgacatttga	actaagcctt	aaagttgtct	ttcaagaaat	ctcaggtaga	aaacagggga
86581	acaagttcag	gcacaagaga	gtgaaagaac	aaagtatggt	taggtggcag	tgtgctcagt
86641	gtggctggag	gagaaactcc	tggaggattt	tggaaagtgg	gatgccttga	ttgggttgtg
86701	tttttgaaa	acgtctccat	tgtgtgtgtg	gagacagagt	agaggaagga	gagtctggag
86761	caggggatgg	atgatgagtt	gttgggaagg	tgtgtcagtg	gtcaggggag	ttgtggctgt
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86881	tgatgtgaaa	ctgatggttg	gggaggtaaa	aaaggagggtc	gatggagcat	gggggaccag
86941	cagagtaatg	ctgtcaccaa	ctcagggtgag	gagtatatgg	ggaggaccaa	gttcagggttg
87001	ggagagaaa	gatgaacaat	gtatagataa	ctcattactt	gcattcagtt	tctgtcattt
87061	tttttttttt	ttttaacaga	gtctgtgtct	gttgcccagg	ctagaatgcg	gtgtgtgtgat
87121	cttggcttac	tgcaacctcc	acttctctggg	ttcaagtgat	tctcatgcct	cagcttccca
87181	agtagctggg	attacaggcg	cccgccacaa	tacctgggtta	atttttgtat	tttagtaga
87241	gatgggggtt	tgccctgttg	gccaggatgg	tctcgaacac	ctgacctcag	gtgacctcc
87301	cacctcgcc	tcccaaagtg	ctgggattat	tggcttgagc	caccgtgcc	ggcagtttc
87361	tgtcatattc	ttatgttgat	gggcacacag	caacagggga	ctccattgag	ctgtccaacc
87421	ttagaatcct	ttggacacga	aactttctga	ctttctttca	gaacttcagt	tatcatggaa
87481	ccaaactgat	gatgctttcc	aaaatttcaa	atttttccag	gtttgcaaca	gatggaaaaa
87541	ttgtcaaagt	tttcatgaaa	ggattatgca	cttgatctag	ataccaattt	acagttgcaa
87601	gaaaaacagg	aacaagaagt	ctctataatc	agtttcttcc	tgttcttcga	cacctgatga
87661	atatgctggg	ttattgatca	catatcttta	gtcttacagg	gacttatatg	gttctgttct
87721	gccttacaca	gtaataaaat	agagttcaaa	aatcatgaaa	atgctagtgt	ctgcagaaac
87781	tgagatgtaa	tacctttgtt	ttcctgaata	gggttttaat	taagctctga	gactaataag
87841	aaacaaatta	gccttcaata	tattggattg	cttcccttct	cattgtgcct	agggtaggct
87901	ggaagttcat	ctgggtgaat	taaattaatg	gacaaattaa	tgcttaatca	aaaggaaaa
87961	gaggagccct	gtgcctgtgg	tgaacttcag	gtcagggttg	tccattcta	ttcttggtca
88021	ttgggctcct	ggctttctcc	taatgacaaa	gcacccattc	tttagatggg	aactaacctt
88081	agttagagct	ccttctgggt	tctatgtact	taagcctcta	gggctgggat	gaaatatgga
88141	ttatctgtga	ccaggcattt	ctgccaccag	ccacctatct	gcttccactt	gttttttccc

FIGURE 2-X

88201	ctcaattttt	atcttgtgcc	tccttctagt	acctttatag	agagccagcc	atatccacca
88261	gagttgcctg	cctttggggc	cccaccgagc	tgactcagct	gagaatcctg	tccaatgtgt
88321	tccagttctc	ataagatgca	aagtggccca	ttggaaagac	actcaaaaca	tagtagattt
88381	ctaagctggt	ttattttcat	ttagccacta	ttctatat	gaaagattag	tgttccacca
88441	gtaaaaaaa	atctctttgc	ttgcttgata	tgtgtaaaa	ggtagcataa	ttttgtatac
88501	tctatat	gtggctgaat	ggcttaggtc	agctttacca	acagcttagt	taaaatcagt
88561	ctgtaaat	taatttcaaa	ttgacattgg	acactggaat	tgaggaagaa	ttagaagcag
88621	ttgaaggtga	acaaggcaga	tacagaggtc	ttatatgcct	tcaagataaa	agcaaaataa
88681	gacaaaatga	aataaaagaa	agccttttat	ttttggttgc	ttacaggaaa	tgagagaaat
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88801	agaagtgttc	atgttggagc	cctggcttct	ctggctccct	gagagctgag	aatgaacgat
88861	agggcagaag	ctgaaaaacc	tgggtcttct	ccgtcagtag	tctgggatag	cggcaccaaa
88921	ggaaacagaa	aaaaatgagt	ttgattccag	tgtgacacca	cagacttaac	atatttgcaa
88981	ctaagtga	taaaaaat	tttttatatt	catgtgcaag	cattttctgc	cccttcactt
89041	acatttaatt	aaatataaat	atatcttttt	tctttttttc	ttttgtttgt	ttattgtaca
89101	gatgggatct	cattatgttg	cccaggctgg	tcttgaactc	ctaaactcaa	gtgacctcc
89161	tgccctggcc	tcccaaagt	ctgggattac	aggtgtgagc	caccatccct	agccactata
89221	tcttctttct	ttctaaatta	aattttataag	aatatatcta	tatgtgtcgc	tctgggggat
89281	aggaatgtgg	gtgattttta	ctttgtactt	caagccattt	ataattaaaa	taatctgttt
89341	aatagaaaa	ttataactaa	gtatctatat	ttttggtctg	ttttcttaca	ctgaacatat
89401	attacattaa	tgagggaaaa	agatattttt	tctccggaca	ggatgaggtg	gagaaacat
89461	cattaagatg	aataaaatgg	ctatttcttt	ttgtattcat	tttctgcgtt	ggaacaaagt
89521	agttggagga	atgttggcag	cttcaactgag	tgacatgta	aatgtgtata	tgtagccca
89581	tcctaataca	tttattagaa	cctgttatgt	cacaggacct	tggagggaat	cacatgatgt
89641	ttgttctctt	caccactagg	tcagagataa	agccatgatt	gctcccattc	tgacaatgtc
89701	attgtaaaaa	gagtggctta	gtcatttctt	tcaatagact	ctagcaggag	ggacttcttc
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89821	gacagtctcc	actgctttat	attttaataa	atcagataac	aaacaacctt	taattgggtca
89881	aattatcaga	gatgtacgtt	attagttcaa	gtgtatccat	gggatttttc	ccccaaatg
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90061	gatgggggaa	gggaaaacaa	atatcaggac	taaaataaca	ctacaaagag	atagcaacat
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90181	caataaaac	atttgcattt	gcattctaat	gtgtgaataa	aatatcactt	tcatgtacac
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90301	gcattttaat	aagtattctt	atagtttatg	caaaaatact	cttgtagttt	tgaaaaacct
90361	ctttttgcca	gatgggaact	tgaagaattt	ttctgctgta	tcacacagct	cacgaaggaa
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90541	gaaatatgta	gcaagtactt	ttctgtcgga	agacttctca	atcttttcgca	caaggctcta
90601	tcatgcttca	atgaagaacR	gtctatttga	gaattcattt	cagtttaagga	aaaaaatagt
90661	ctcctggggg	cttaaacaca	gacttgcaaa	gaccacaagg	gcaaagcttt	cattttcatc
90721	agctattggg	ttcaaactta	aatttctttt	ttaaaaacta	attttgatct	atagacctgg
90781	ttatttttagg	ttctaaaata	ggctaggcaa	caactgtttc	attctcctgg	tttatgtgga
90841	acgaagccaa	acatatggca	aactatacga	ttacagagga	atttggatgt	atgggttctt
90901	cctctatgta	tcattttcaa	tcccaccgac	attggtctac	agcaggcaac	cagctgctga
90961	gggtggtggg	gcaggagcct	ccgggtgcac	gtgcacactc	atgcataatgc	cttgggtggac
91021	ccttaaaatc	agaagtagtt	tatatgagtt	gtttcacagg	aaaagctgaa	gggtgaacaa
91081	aagcacttga	ttagcagttt	gctcctatgt	ggctcaaaca	tccgaaRaat	attttatctt
91141	cacccaagat	gcaaatgccc	agtgaagtac	gtgaagtgtt	ataggtgccc	caacttacca
91201	cacagtatcc	tgagccgtcc	aaacactcgt	tggaaattgcc	attacagtcg	cagggcacac
91261	attctcccgga	caggggtgta	aagaatccag	cattgcattt	ctgcaacaga	cacaccaaac
91321	cattttgatt	attgaaaaga	ttgattttgg	tcaatat	ctgagaagaa	atcagagaaa
91381	gtgattatta	aacaatctaa	acatttctaa	aatgaatata	ctaaatgata	catacaaaac
91441	ataactaaat	aaactattta	tactaccatt	cagtgataga	tgatgtatat	ataacttctt
91501	ttgttaacata	actttttccc	tcctttcact	tttcaggaga	acagaaatgc	ctttaacact
91561	gtcttatcat	tgcaaggaag	aataagaagg	tattacgtaa	cagtaaggga	gaaaaaaatg
91621	ctaattgtttt	cttccagtat	aagcaaaaca	aaacaagacc	acaattaagt	attagtcagg
91681	gtgaggtcat	gctccctata	aataaagaaa	gacttctcgt	ttcagcaatc	actagctata
91741	ggagagcaac	ttagctatga	gatagcaact	gagtccttca	tgaacttcag	ttcttaaaag
91801	catctgtttc	ttcagatgct	aacatgttaa	agggagggat	aaggaagtta	atgagttctt
91861	acacttgtca	agtccctgtg	gggtgctgtt	catatatgta	tttcatttgt	cttcagaatg
91921	ctgcgaggaa	cacatgactt	tcccttatcc	tagtgatgag	ctcatgagat	tgagaggtgc
91981	taagtggcct	ttggggatgt	taaactatcc	tgtcatgcac	caattgacct	gcacaatcat

FIGURE 2-Y

92041	cagctgccc	ccccagatat	cattagtggtg	ccatttgaga	cacattatga	gattRttcct
92101	ggtttatgtg	attaggctgt	ggatatgcat	ttgatatttc	tttggaatgt	ctcagtgatg
92161	aagggcagaa	atggcattat	gggcctggaa	atccgctccc	cgcccatcag	acaagtttat
92221	gtctaaagaa	ttccagacag	ataagaatct	gctttgtttc	cacagactta	cagagtccaa
92281	gattttcacat	catacacccc	cattgaccca	ttgtagtttg	cacttcccctg	gcgaccagga
92341	aatttttcatt	atatctggct	gaagtccttc	tgattgctat	gcaaacctat	ttccccttgc
92401	tttttactct	gtaaagaaag	agtcactaaa	caccattcac	agtattttaa	aaaaaacaca
92461	cacatcagtt	cacactttaa	aactaaaatt	taataaaccc	catttgagg	aagttaata
92521	aagaataaca	acatttgtct	atgaaaaaaa	ggcaaggaaa	ttccacattt	ccaagttaga
92581	gaaataaggc	taagagaaga	tcaatttata	attttttaat	ggagagttgt	ggttgatggt
92641	aagcttctta	gtttccacta	gaaaacaaga	gagggaaGRc	actaagattg	cagtaggaa
92701	catttaattt	agaccattta	atttcacatt	tttagtcttt	gccgcaaagt	aaacataca
92761	tgttttcatt	gtgatgcagt	acacagattg	gtatctatat	ctatattggt	gtagatatgg
92821	agatagatat	agatatccat	atatatgtgt	ctcagagaaa	agattcacaa	agtaataatg
92881	tacctaaaac	ttctctattg	tatttaagag	tatatcctgg	tcatgaccca	taaaattgat
92941	ctgatgacct	atgaatgtgt	tgcagttttg	catgactgca	gggttttctt	tataagtaga
93001	gtgggtaaga	gtagtgcagg	tcttaatat	agttatctta	gtagcctctt	aaatgggtgt
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93121	caaaggatct	gcatttttaa	aaataacttt	tgtgttttag	aataacttta	gatttacaga
93181	aaaattgtga	aggatctgca	tttttaaaaa	gctcccaaaa	gactctgata	tttgccagg
93241	tttggaagca	tctctcacaa	tgccttggat	atattaattg	ctcaatgaac	tctgggtgat
93301	ttgggtgggt	tggacaagga	cagcaaaactg	gagacatata	tactattggg	agcccacaga
93361	atatactgat	aatccatcca	ctgctctctc	ctaagggtgg	atctcatctc	aactctttgt
93421	caacagtcca	gcagccagtg	cctaggttgg	acagcatgca	agatgaaatc	tttgatgatg
93481	gccaaagtta	ggaggagagt	tcactgtgag	agcctgtcat	tatccactta	ccactcccca
93541	atctgagatt	atgaccttgg	gtgaaggata	acttggtctc	gatctcttat	aatgtgggag
93601	atgggaagaa	aaggagggtg	cgaacagggc	tgtgttgagt	catttgcccc	cccgccgaga
93661	gggcgaggag	ggctggcagg	gaaacctggc	acactacgtt	cctgctgggc	cttgccacc
93721	tgaaagaatt	atatttttca	gtcatctatc	tgggggccct	gggcatgccc	tgctagagca
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93901	ccttttaggtg	gaaatatctt	atcatggctc	cagtgaagtc	tggtatttat	ttatttttac
93961	tgaaatcttc	tttgaaattt	cgaaggacct	ggcaaaattg	gcctttttgt	aatatcaaàa
94021	ggccgatatt	tccaagtatg	aaagtagaac	gatgtatttt	tagttttgct	cctgggtaat
94081	gtaatcgtaa	tccttagtaa	ttctaacacc	tgtgctattt	agaggcctgt	gaaagctgaa
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94321	ctgtaaaaaac	acaatcttag	cattcagagg	atctgtacct	tctgggggtgc	catggccttt
94381	ttaaaaattg	atagtaataa	caaggataat	gatgatgata	attataatat	agtggccagc
94441	aatgtcatac	aactccaaga	gttcagactg	atccaaatct	tggtctttct	ttgctataac
94501	ttgctgcccc	tcataaataa	atacatacct	aaagtttatt	taattgaaca	tgaatatcta
94561	ccatgtttta	gtcactgtgt	cagttatgtt	gcacaattct	ctcacttgac	accacagtag
94621	ccctatgagg	taggttccct	tgtctttgtt	ttactggtga	ggactttgtg	acttacagag
94681	atgtattact	gaagccggct	aatacagata	agaaatgggtg	gacccaggat	ttagatcctt
94741	cattttttccc	ctcaagtttt	agctcttaac	catcttgcgt	gccattaata	tattgaacca
94801	aacatttctt	gttggaacatt	taggttatctt	ccaaatttKt	gctgctatta	acattttcaaa
94861	gcaggctgaa	atggataaaa	aatgtaaaat	gcctccttta	aatcccagaa	aaaaatcttt
94921	gctaatagac	acaatactta	aaaatacata	gttatttaata	tatgaaaacc	attgaatggg
94981	ataattgactt	ttaaaaatat	ttatttttagc	caaattttct	ctttgaccaa	ttaccttcca
95041	ctaagttact	tgtagatctt	ttacagctct	ttattattaa	gagactccta	ttatcacagc
95101	ttgcctcctg	ctctaccatt	aagactgaat	taatccatac	catttacttc	tgcttttgaa
95161	aaataagagt	gaaaattccc	atgtgcttac	tttggtatat	ttagtatgag	gtctggcttS
95221	gagtaaaatc	attgtatgtg	tacttgctta	attttacatt	tatggaaatg	agaactagat
95281	gtaactttat	gaggaaatga	gtgtggtgta	tctacatgtg	tcaattacat	ttaaaggaac
95341	tgggatgaca	ggacatgttg	ttatcactgc	agaaggaatt	atttccagag	gtttatcata

FIGURE 3-A

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61     agagatgagg tttcactatg ttggccaggc tgggtctcgaa ctctgacct  caggtaatcc
121    gccagcctcg gactcccaaa gtgttgagat tacaggcatg agccactgca cccggccggg
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301    agattatttg ataatttttc taccatttga ttgctttact tttaacacga gcagtagggt
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481    accttggtgt cacaaatttt accggaaaaa tacagaagca cctagatgtc tcaccaagat
541    gtataatgta tgttcaaaag cagaccctag tttttttttc catcaaaaag agatctgaag
601    agcctcagtc agagaaacaa cggtttcata aatacaaaacc taagctacaa gttgtctaga
661    gtaataaaag aaaaatcttt ctctgcccc ctctgtggtta actattaata cttcagcaat
721    accagtagtt aataaaaaaca tctattttac atttgtaaaa aaaaagggaa agtatttagca
781    agaaactgca ttatcaagaa ggcttagtaa agctgcattt tttaaaagtc atctgattta
841    ttaggggagt tattctctcg cagtcattta tttgcagaag atattacaga tttccagcgg
901    aaagagaaag tgctgaaatg ggtgtgttct caagtagcca tttggaggat gaaagaacag
961    ttgagtatat tggaccttgg gtaccaaag tgggccaaact ggatcttgcc tgataagcat
1021   ttcaggaggga acttgggggtc ttcatagcat aactttgggc ttcttgaaac agttgaagtg
1081   atcccagatc atgctttgaa aagaaaaaat tggtaaagta agtaaagtga taggtgtttt
1141   tttccagggt tgagcccat gatagttaat tgataggggg tggggaatgt ttaaaggaggc
1201   ttagagcaaa gcattttgca aggaaaggtc aggttgctgc atttgaatag ctttcatgtc
1261   tgatgtctga gaacttgccc cagctagctc tactctcttc tcagggactt agaagaattt
1321   tctgcactag cKtctctctgc tcagtgcctt gctacaggaa tgccaggaga actgtagaga
1381   tggacttaca tgtaaatgct tgggtgtgtt ctaatagaaa gggcttagaa caaagtcaaa
1441   gtgaaaaaag aatcaaagca gctttgagac agaaaaaaa tggcactgaa aaattaaaat
1501   tacctgaagc atttttgaag aagacaaagc aacttcaaac actgttttaa gataggcgga
1561   atcccatgaa attttattga aataaattaa aatttttctt ttaaaatatt cttataaacc
1621   aatgggttaa caccaatttg cataaaatat tatggacttg atgctgtact aggagggtta
1681   gatatctgcc atgttcttta catggttgca aacagtgtgg agaaagagaa acacaatggt
1741   gatacggatg cataaacgag cttgttcagg caaaggcctt gcgggtgaaa aatggagtaa
1801   ttaattatgg aagacatcca taacctgtt tttgtcaagg aagtaagttt tgggaggata
1861   tatttttgga aacagagata cggagagaga gcYacagatc tttacctatt tgggtaggc
1921   agagaaggac caaggagggc attcttgttt tattagactt agtttggttt aaactttttt
1981   ttttttgaga cggagtctgg cctgtcacc caggctggag tacagtggca cgatcatggc
2041   tcactgcaac ctccgcctcc tgggttcaag caattctcct gcctcagcct ccaaggtagc
2101   tggcgctgct caccacgcct ggctaatttt ttgtagtttt agtagagaca gggttttgtc
2161   atgttagcca ggttggctct gatctcctga ccttgtgatc caccagcctt ggctcccaa
2221   agtgctggga ttacaagcat gagccaccgc acccagccct agcttaactt ttaattgaa
2281   ataaaatata tagaaaatgg aacagatcat gagtatacag cttaatacgc acactgtgt
2341   aaccagact gagattaaaa aatgggcat tctgggtcc ccagaagtcc cctcctgtc
2401   tgtggtctag atttgattta taccgatctt aaaatagcat ttgtttccaa atatattta
2461   gacattgcca ggggaaaaac aacaactaat gtggggtgat tttgtcagtt ggggtcacac
2521   agctttcaaa aaccaactca agtcattttc cattctttt ctcttcaaa gctgtcaatt
2581   ccatgccagt ggataacagg aaccacaatg aaggaatggt aagttgcaat tgcaacttta
2641   gaatctagac ttgtgtctag actctagatt ctcccagtc ctattatacc aaaccaaaaca
2701   cacgcatgac ataatcttac aaagccaggt tttcattgct gacagaatgt gagcaaggga
2761   tgccctcctc gactgagct cctatStcct gtcaggatgg tttagcacc ctaggagtag
2821   ctgtgccatt ggttcagaaa tgggtgttta tttcccttct ccagataatc ccaactcagt
2881   gcttcttgtc attattctgt gtagaagttt ggaagatttc attctgttcc tgtaaactctg
2941   tatctccgcc ctaagaatac tRcatagcc caggtcacgt aatcaagtct tccttgacag
3001   cagctctggg ttgagtgtc tgtcatccag tgataccagc ttctccaacc tgctttcggg
3061   tttcccccca ggtgactcgc tgcattcttg aggtcctctc aaatgccttg tcgaagtcca
3121   gcgctccacc catcacccct gagtgccgcc aagtcctgaa gacgagtaag tgtcccacac
3181   ggcaggcaga tcttggtcac tgcagtgatc cttgttccta ctccctccac atcaccttct
3241   actttatcta caaatgacct gggggcataa tgcactagga agagtattga ttgactaggc
3301   cagtatctgg gagacagaag atatgactcc tagttcctgc tttaccactt cgcagctgtg
3361   tgactatagg aaagacMgtt tgcctctctt ttcctcaaag taaaatgaag gagtgaact
3421   cagtgatagt ctttcagatg tctatccgtt cttaaattcc ttagttccat actttggatt
3481   tttagaaccg gacttccttt ggggtggagg ggtttgggaa atgctggttt tgattagat
3541   gaggaggggg gttatggaag tgttgacaa tgacagaggg agatttaaaa atcattcttc
3601   tctttgcctt ttgctcttct gacagtgaga atcaggaagc tgagaagcaa gaaacttaga
3661   aaggtgactt aaaattctgg cctatttaca caacaaatta gctaagatat ttaaatgtat

```

FIGURE 3-B

3721	agcttactag	aatagaaggt	gccaccaa	ggtaccagga	gttccaggcc	tgagaactgg
3781	aaggggtttca	ggtagaggca	gtgcattcca	gtgaggcaga	ctaattggctt	tctgagtcca
3841	gcctgtgaag	tgttctcaat	atgaaacccat	ttctgctgaa	aataaaat	gaacagtaat
3901	ataagcagta	cccattggaa	attgacatta	tgagggtcaat	tttacaaaac	tatgcagtct
3961	ctgttatgca	tgaagccaca	ctgattcaaa	caaattccaga	aaacactgcc	ctcttcaaca
4021	ctgtcctctg	cttttaaact	tttagtcagg	ctgggaacag	tagattttat	cttatttttt
4081	cacctttaaa	aatctttcag	gtgggcatag	tggctcacac	ctgtaatccc	agcactttgg
4141	gaggccgagg	cagggtggatc	acctgagggtc	agcagtttga	gaccagcctg	gccaacatgg
4201	tgaaccctg	tctctactaa	aaatacaaaa	aaaaaaaaaa	aaaattagcc	aggcatgggtg
4261	gcaggcacct	gtaatcccac	tactcaggag	gccgagacag	gagaattgct	tgaacttggg
4321	aggcagagac	tgcaagtggc	caagattgaa	ctccattgaa	ctccagcctg	ggcaacaaga
4381	gtaagactcc	atctaaaaaa	aaaaaaaaaa	aaaaaaactc	tcattgccac	cagcctggcc
4441	aatatggtga	aaccccatct	ctactaaaaa	tacaacaact	agttgggtgt	ggtggcgggc
4501	gcctgtaatc	ccagctactt	gggaggctga	ggcaggagaa	tcgctagaac	ctgggaagca
4561	gaggttgtag	tgaactgaga	tcgtggcatt	ccactccagc	ctggatacag	cctgggtggc
4621	agagtggagg	tccatcaaaa	acaaaaacaa	aaacaaaaaa	aacaccaa	aaacacctct
4681	cgtggccaga	caagactctc	ttgctatagc	tatacatgag	ccctcatgca	tgaatggta
4741	aaaagcaaat	agtgattggc	caaaagagta	acctgaggcc	aggcgcagtg	gtcacacct
4801	gtaatccag	cactttggga	ggctgaggcg	ggcggatcac	aaggtcagga	gatcaagacc
4861	atcctgtcta	acacagtga	accccatctc	tactaaaaat	acaaaaat	agccgggcgt
4921	ggtgacacac	gctgttagtc	ccagctactc	aggaggctga	ggcaggagaa	tcgcttgagc
4981	ccaggagggtg	gaggttgtag	taagccgaga	ttgccccacg	gcattccagc	ctcagtgaca
5041	gagcgagtct	ctgtctaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	agagcaacct
5101	gaattaattc	aatctttggg	ggcttcagggt	aacaatggta	gctgtggggg	cctgagcctt
5161	tagggaccct	agaacacagt	gatggaagct	ttcctaccac	tcccagccca	catacctctt
5221	tctgagtttc	tttccaactt	cttttttcca	gcagttacag	gaagttagta	agagcagagt
5281	gggtgactag	gcagagagta	aaggctgtct	cttttggcaa	acccatcttg	gtatctccct
5341	ttccctttct	ttgtttacta	gaccaatgca	aaagttaggg	gcctgtccca	tcagctcact
5401	aaagaaccac	agttgcttag	gaaaagttgc	ctatgcctgc	ctgccaagat	cttagccctt
5461	agattatggc	atagtaactc	tagcctctgc	tccagccctg	attatgccct	gaggtctttt
5521	gRtgtctgtt	gagagagacg	tagggaaact	gggaaaaatc	aaatgtatct	aaggatcctg
5581	gagatgttat	acccagagag	tgacagaatg	ctgagatggc	Raaggtttaa	gagcttctct
5641	gtggttgagc	cttaaacacc	aggcagagct	agacagacaa	ataacacaaa	agagtaaggc
5701	aggacaggaa	gtgactcaca	gactggaggg	cacatgcctt	ttctgagagg	gagcaggtaa
5761	ttctcagctc	ttaaaccggt	atggagaaat	acagactatg	ttgtcaaate	ttgggatttt
5821	tcaaaagaag	ttaaaatttt	gattttttaa	agacatctcc	tggtattttc	atatgccttc
5881	tgaattcaRa	tgtactaaaa	ctgtgtttta	ggtaaaacag	aattttacct	tgatgcacca
5941	gtttgcaact	tttatcctat	tctagtcttc	tctctcttgt	tggcatgtcg	taaactgac
6001	agaagactgg	tggagctttt	gcccactggt	ttggatgaat	gcctttatac	agcctctgtt
6061	ccacccccag	cccactctca	ctcccactcc	tacttgcatg	tctcagagtc	agcatatact
6121	cactgagcaa	atgagtattt	ggggagtagg	acagaatcat	tggttttatg	atttgagaga
6181	cctcagggaa	gacgtagtct	aatttcttca	caggtacaag	aatctctttg	actagggttg
6241	atctggtcat	ccttacagca	tgacagatgc	atcttccctgt	tttcgcttga	aagtaagtgt
6301	gagcttcaca	gcttgatttt	acagcttgac	agttagtggt	tgctgctatc	acagcctctt
6361	ccaggcccac	ctgcggggct	taaagctaaa	tttagtagga	agagctaagc	ctcaggcaca
6421	tgctgctcag	gcagtacata	tttaattggg	aaaaaataaa	aatacttctg	ttcctgacac
6481	ttaagactca	caaaccagta	ggcagtagga	aagggaaccac	agttagctcg	ccctggagg
6541	ctgagatctt	gtctgatcag	ctctatttca	accaactctc	agaatgacat	cagtatctgt
6601	ctgtcttagt	cagcttgggc	tgctatatca	aataccatag	attggatggc	ttaaacaact
6661	aacatttatt	tttcacagtt	acagcagtcg	gaagtccaag	atcagagtg	cttatgaggg
6721	cccacttcc	ggcttgtaga	tggctgcctt	ctgtcactgt	atcctcatct	ggtggagaca
6781	gaaatcatct	ctttctcata	tctcctttct	tagggcacta	atccattgt	aagtgcctta
6841	ccttgatgac	ctaattacct	ctcagaggcc	cccacctcca	cgtgctatca	cattgaggat
6901	taggggttca	acattttgga	atcacacaaa	catttagtca	atagcactgc	ccagagccac
6961	catgcttccc	tgtgcccac	tggctagcca	tgccccaatg	ctatacacac	caccactggc
7021	ttttaagagg	caaagagact	ggtagcagat	gggccttctc	tcagatgtct	ggaaaaggcc
7081	agggacattt	tcattgcctc	tataacatga	gaatattatt	atcatgccag	actggacttt
7141	aaacagagag	gtacagagag	tccactattt	cttgacatt	tttacaaaat	aaataatttt
7201	tttccatttt	gcaaataatca	tttcaaaaata	acttatcagt	gccacccaat	agaaatataa
7261	tgtgagccac	aaatataatt	tcaattttta	tagtaaccac	atttaaaaaa	taaaaagaga
7321	caggttgaaa	ttaatttcaa	taatatattt	tatttttatc	caattttttt	ctgatataata
7381	attttataaa	tctgatctat	ttgaaatata	tattatccaa	tacatccaaa	atattatttc
7441	aacatataat	gatataaaaa	ttgttgagat	tattttacat	tattctttat	tctcagaagt
7501	ctgatgtgta	tcttacatat	atagcatgtc	Ycagatcgga	ccagccacat	ttcaagtgtc

FIGURE 3-C

7561	caacagcact	tgggcttatg	gtgcctgcag	tgtagaccca	gagctgtcag	tggccttggc
7621	ttcaggcatt	ttatctgaac	tctgtgacat	aggttgaaat	ccaagccctc	ccagctaaca
7681	actgagacaa	tgctaactgc	ctatctcctt	tcatgggggtg	cccttgagtt	aaggaggact
7741	tagtaaagga	gctattgata	tttggaagaa	atggacgaga	acagcattca	attaaaatat
7801	cagttatacc	atgtactctg	actctggaaa	cacaaagata	actcactgtg	ctgaagtctg
7861	tccccaacat	ctgagaacat	gttgggtgga	tggaaacctga	gtgaagaaaag	aaatggccct
7921	ttccactgat	gtgcagtttt	ctcaggcaag	aaatgtacac	ccttatcacc	agctactaag
7981	ttatatatca	catactgcta	ggttgagcct	acagttgatt	ggataataaaa	agtctgatat
8041	aaactaataa	tttcaaattgt	ttaaattcctc	ctttgaatct	tgatatttct	tattttggct
8101	agttaactat	ctagctggat	tattgttaga	gccattcaca	tagtgctaac	tttttaactc
8161	ctacttgaag	aaaatatgga	aagaatggtc	ttggattata	ccatgctgag	tctcaatgtc
8221	tgcaaaaaga	agaggttgga	ctggattaga	tgaattctaa	gatgtttYct	gcctctaaat
8281	tctaataat	cataaatcta	tatctcgatt	tcagtttgat	cattggtagt	accaatgaga
8341	gaagctggct	gggcattatg	aagacataaa	aatatagaca	gtttattacc	agatttaaac
8401	acagtcaagg	agctttcata	gcatttactt	tcaaaaggaa	tctgagtata	ttcttcatta
8461	acttaaataa	ttatccaagc	aattttcagt	gtcatcagga	tttgtagtga	ttactgaggc
8521	tggtgcttgt	ggaaccacaa	gcaattctga	aattatacct	actcttcatt	ttcattatag
8581	gtagaaaaga	cgtcaaaagc	aaagagacaa	ctgaaaatga	aaacacaaaag	tttgaagtaa
8641	gattgttaag	agaccagct	gatgcctcgg	aagcccacga	gtcctccagc	aggggagagg
8701	caggagcccc	aggggaggag	gacatccaag	gcccacaaa	ggcagacaca	gagaaatggg
8761	cagagggagg	cgggcacagc	cgagagcgag	cggtatgagc	ccagtggagc	ctctatccct
8821	ccgacagcca	agtctctgaa	gaagtgaaga	cacgccattc	tgagaagagc	cagagtagag
8881	atgaggagga	ggaggaggga	gagaactatc	aaaaaggggga	gcRaggggaa	gatagcagtg
8941	aagagaaaca	ccttgaagag	ccaggagaga	cacaaaacgc	ttttctcMat	gaaagaaagc
9001	aggcttcagc	tataaaaaaa	gaggagttag	tggccagatc	ggaaacacat	gctgccgggc
9061	attctcagga	gaagacacat	agccgagaga	agagtagcca	ggagagtgga	gaggagRcag
9121	ggagccagga	gaatcacccc	caggagtcta	aaggccaacc	ccgaagccag	gaagatactg
9181	aggaaggtga	ggaagatgcc	acctctgagg	tggacaaacg	acgcacgagg	cccagacacc
9241	accacgggag	gagcaggccc	gacaggtcct	ctcaaggagg	gagtcttccc	tctgaggaaa
9301	agggacaccc	ccaggaggaa	tctgaggagt	caaacgtcag	catggccagt	ttaggggaaa
9361	agagggacca	ccattcaacc	cactacaggg	cttcagagga	agaacctgaa	tatggagaag
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9481	gcagaggaag	tgaRgaatac	agggctccaa	gacctcagag	tgaggagagt	tgggatgagg
9541	aggacaagag	aaactacccc	agcttagagc	ttgataagat	ggcacatgga	tatggtgaag
9601	aaagttagga	agagaggggc	cttgagcYgg	gaaagggacR	ccatcacaga	ggcaggggag
9661	gggagccacg	tgccattttc	atgtctgaca	ccagagaaga	gaaaagggtc	ttgggtgaag
9721	gacaccaccg	tgtccaagaa	agcgaaatgg	acaaggcaag	gaggcatcca	caaggtgcgt
9781	ggaaagagct	ggacagaaat	tatctcaact	acggtgagga	aggagcccca	gggaagtggc
9841	agcagcaggg	agacctgcag	gacactaaag	aaaacaggga	ggaagctagg	tttcaagata
9901	aacaatatag	ctcccatcac	acagctgaaa	agaggaagag	attaggggaa	ctgttcaacc
9961	catactacga	ccctctccag	tggaaagagc	gccattttga	aagaagagac	aactgaatg
10021	acaattttct	cgagggtgag	gaggaataatg	agctgacctt	gaacgagaag	aatttcttcc
10081	cagaatacaa	ctatgactgg	tgggagaaaa	agcccttctc	tgaggatgtg	aactgggggt
10141	atgagaagag	aaacctcgcc	agggctccca	agctggacct	gaaaaggcaa	tatgacaggg
10201	tggcccaact	ggaccagctc	cttactacac	ggaagaagtc	agctgagttt	ccagacttct
10261	atgattctga	ggagccgggtg	agcaccaccc	aggaggcaga	aatgaaaaag	gacagggctg
10321	accagacagt	cctgacagag	gacgaggtat	ggctagggc	ttctgtttaa	aagtacttac
10381	tctggtcaat	gttagcacat	tatgttcaag	actatccgat	attcacgggg	agaaattggg
10441	gggaattaat	cactatgaaa	atggtgtctc	agtaatggag	tggaggccac	cttgggggtc
10501	ggtttccacc	tacctctagc	catcgtccac	atccttgtcc	acctcactcg	gttgcatgtc
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10621	gattctgtct	acttagttcc	taggggtctg	cctgatcatc	agaatatattt	aaagcttcca
10681	gatgattgca	gcgttcagcc	aacgttaaca	actgctgttc	tggatatcttc	cccttgggtc
10741	tcttattgtt	catcactctc	tccctgaggc	agggagaata	ggtgatagag	aagtttactt
10801	gcttgccctat	ttagtttgct	atctttatta	tttcatgccc	tactgccatc	agaaatttgt
10861	attcggggaga	ggtaacacta	ctggagctga	acctacccaa	acaatgtttt	ttttccta
10921	attgattatg	taggttggtg	cttctcaaa	ttgaatgtac	attaggatca	tgagggattc
10981	ctagccccc	gagttcctca	tttagtaggt	cccaagtga	accccaatat	ctgcatttct
11041	gacaagttcc	tggctgatgc	cactggtcag	gKgaccacac	tttgagagtt	actgaggtag
11101	gttgactaat	gcagcttcta	acatgcctaa	aattccctt	tgcactcatR	ctccatcaaa
11161	ctacagcaaa	agaaattggg	tcgggacctc	atgcctccac	ttttctgtat	tttccagaaa
11221	aaagaactcg	aaaacttggc	tgcaatggat	ttggaaactac	agaagatagc	tgagaaattc
11281	agccaaaggg	gctgactgtc	attggagcgg	tgggcaactgt	taagaagcag	ccatcacatg
11341	atctgttttt	caccacttca	ctgaaagaca	ccatttatMt	acccaagggc	agaaagtaga

FIGURE 3-D

11401	acttactatt	cattaaatgt	ttgacacaat	tggaattgtc	tttaatttct	gtcagaatgc
11461	tattgaaaat	gtgaattgca	tgacttgtag	catattcttt	tctgcaaaat	agacatatata
11521	acatgcttat	gacaatgact	gtgctactgt	cttttgaaaa	atgtttgtct	cagtttgaaa
11581	taataaaaaga	ttcacctgag	accaaaaagct	tcattgttct	cagcttcttt	tgggcaaaaga
11641	gagaggtgtg	tgacttttca	aatctattct	ttgaagtaaa	ttgcaaaaaga	tRgccctagg
11701	at ttgttggg	ttttggatgc	ataatagaat	aaaaaagcaa	accttttgaa	gtaatgtgca
11761	ggatataaag	agaaaatagat	tagaaaaaga	catctactcc	cccattgctga	gagagattac
11821	aggggcttga	agaacctgtt	tcaaaaaacaa	tcataagata	ttacttttaa	aattccttta
11881	tctaaagagc	tctacaagta	gccagccaaa	gttcattttt	cagggctgag	aagaaagctt
11941	ggataatggg	aagaattccg	gggtgggagt	gaaaacatct	ggattgtcaa	gacagatccc
12001	tggccctca	gatcttgtct	gatttctact	ccttaagaag	atagaggcag	ctgggYgcgg
12061	tggcttacag	ttgtaatcct	agcacttttg	gaggcccagg	cagRcagatc	acgaaggtcag
12121	gagtttgaga	ccagcctggc	caacatggtg	aaaccccatc	tctaataaag	atacaaaaaa
12181	aaaaagctgg	gcatggtggc	gggcacctgt	aatcccagct	acttgggttg	cagtgaagcgc
12241	agatcaggca	ttgcaactcca	gcctgggttg	cagggcgaga	ctctctcaga	aaaaaaaaaa
12301	aaaaaaaaaa	aaaaatata	atatatatata	atatatatata	atatatacat	atatatatata
12361	atatatatag	agagagagag	agagagagag	agagagagag	gctaggcatg	gtggctcaca
12421	cttgtaatct	cagcactttg	ggaggccaag	gcagggtggt	tgcttgagct	caggagtttg
12481	agaccagcct	gggcaacatg	gcgaaccccc	gtctctacaa	aaaattttaa	aattagccag
12541	gcatggtgtt	gtgcgcctat	agtccctccc	tactcaggag	gccaaggcgg	gaggatcact
12601	tgagccctgg	aagttgaggg	tgcattgagc	cgagatcgtg	ccactgcact	ccagcctagg
12661	tgacagagta	aggtcctgtc	tcaaaaagaa	aaaaaaaggt	agagctttta	ctctcgtgac
12721	tctgttacta	agtagctctg	actttgggca	agttactttt	cctctctgaa	cctcaagatc
12781	atcaatgaaa	taagatattt	gtctcattga	gttggttaca	ggatgataga	gttgatgcaa
12841	aacagagcag	tgccctggtg	atatcaacgg	cataggaagt	gttagctgct	gccgtaatca
12901	ttcttgcagc	ttcttaggac	aatacagttg	gacaattccc	cttctccctt	tttttacctg
12961	tcttttaatt	cctcaccctt	ggtggtctct	acttgggtga	tttctactgt	tttcacagtt
13021	ttggtaaaga	gttattctct	ggaaggtggt	gcagaagaga	gtaagacctt	ctctttactc
13081	tctgaagggt	ggataattaa	gtctatggaa	taaactgacc	gtaggcagat	taacaggaga
13141	aaaaaacatt	ttaattacat	gcataggccc	aggagtccca	cacaatagaa	gactcagaag
13201	ggccagatga	ttgaagtttt	tatagcatcc	tgagctacag	aagagaatag	ggggcttggg
13261	gttccttggg	gacacagtta	tgggaaggtg	gcaggaggaa	ttgtatgata	aataaagggt
13321	gtgttggtat	gcagataaaa	tctctcaggt	aatcaaaagt	atccagcagc	cttctttttt
13381	tttttttttt	aaaagcttaa	tgaattttta	ttttgaaaat	atggcaaaaag	tctaaggcac
13441	ttcaaatatt	taaatacatg	taggacccaa	gtaaatgtga	cacagtataa	aggaatccat
13501	aaatacacag	aactacacta	tatttctcta	gaggcaaata	catagccaat	tcctctaaca
13561	caattcaacc	tttatcatta	gatacaagaat	tgtgcaatta	ttaacaaaaa	tatgataatg
13621	ttacatgtag	ttcttcatgt	ctttaattag	tatgaaatat	aaaagttgaa	aatactgtgc
13681	caatttcata	tactcttttt	ttttaaaaaa	gtcatattta	catctacctt	gatgaaacca
13741	aatgaaaata	ttttcttttg	taagtttcat	agtttttgag	agttctatct	agcccagact
13801	gaagttactg	atgatcaact	ttcttacttt	aaaataatac	aagaaaaaat	aacaaaactg
13861	tgcttggatg	gaattttgga	agagctttct	aatggtgccca	catttggtaa	atataaata
13921	ttgttgaaaa	attttaaaac	gtgatgccaa	tgagaacctg	acacttctct	gtgggtgggtg
13981	tctgggagtg	gagagacgga	atagaaggtg	ccatttcagg	tcaggtcagg	tcacaattcc
14041	ctatggctgt	acataacaga	gcagagactc	aacagcaaca	cagagtaggt	taaagtgcac
14101	cgtacgcaga	cagaagatgg	ccagaaaagga	ggcatgtgtg	cccaggctgg	cagtctctgY
14161	actgtgaaa	cttcagttct	tagccctggg	ctttatgctt	ctgtttgctg	gtgagctcag
14221	gcacaatgca	tatacattca	gtgtctgtca	ttccaacagg	cacagttggc	agcttaatgg
14281	tggcattaaa	atggagggtc	atttgcatac	aatcaatcaa	atgaaactct	gtggcttcat
14341	tccaagccta	ggggtgccc	gagactgagc	ttttgcaaa	ctgatgtggg	catacagaag
14401	aacagtgcag	cccttgtgcc	ccacttccag	ggcgatcgag	agcatggtgc	tgccatcatt
14461	gtcctgcagg	tggacgttgc	agccccagtg	ggccagcagc	agcttgatga	tctccatgtg
14521	cccgtgcttg	ctggcacaat	gaggaccatg	gagcccttgt	cgctctggag	gttgacctga
14581	gccccacagg	ccggcagacc	atacaccatg	ccgatctgca	cagtaactga	ctgcagcatg
14641	agggccatct	gccccagctg	actggctttg	aggctcacct	ttcagccaga	gttcttcccc
14701	aacctgcatg	tcctctgctt	ccgcagctgc	gagggccgcc	agcatgatga	aggtatagcc
14761	ccttggtctg	gtgatccacg	ttacacatgt	gggtgtccaa	cagcagcttc	acaactctcaa
14821	aattggagtg	ggacaYgctg	taatggaggg	ctgtgttgct	gttgccatct	gccaagttga
14881	tgacctagta	gagggcattc	agggaggtag	cctcaaaaagc	agctctgtag	tctcccaggg
14941	tggtgcaat	ggctaacttc	tgactggaca	cgcagaaccM	cttgtgctgg	aggggtgttca
15001	gacgaaccct	catatctttg	ctggctcacag	ctttggggtc	atttatatta	tttttcagta
15061	agttgcaagc	agacaacatt	tttttactta	attttatacct	ccctctgatt	ttcacccttct
15121	cagggttcacg	ttcttgaaac	tgcatttcat	cttccaccct	ggccRacttg	aaaccttcaa
15181	tgtaaatggc	atggtgccc	ttggccattc	cccaagtgtc	ttcatcctcg	tcttcttcaa

FIGURE 3-E

15241	gaggatacta	ctcaatgaca	ctcaatgaca	tcacactcgt	catctgactc	agaagaagag
15301	ctttcatctg	tgtgRaaatc	atcacttgaa	gttggttgc	aacctccatt	aatgccaaaca
15361	aactgaagat	tctttttcat	gccatttgaa	tctttgttac	catctttctt	cttcataatg
15421	ggctccagtg	tactttcatt	gtttgtgcat	atggaggcca	gcggccatct	ggttgtctgt
15481	cagggttca	agagaccatg	tcctttcctg	agcggggaag	gcatacctggc	tgctgaccag
15541	ctttccttct	gagatcccta	cctctgagca	gccttcttcc	tgatacagat	actttactaa
15601	tgtagatttc	ctttctagat	gtaMatttcc	ttgtaaaaag	gacagctttt	tagagccatt
15661	cctgtgtctg	tagtttctct	gaataatcag	ctcgaaatat	gccaaagagg	tatatttttg
15721	ggtggcacat	tgtgtgtctc	tccagtcata	ttttgggatg	gtgtgggccc	agccccagca
15781	gaggcaaaaa	taagaYttaa	aatcacgtag	gacttttatc	catcaaggaa	gacctgggtc
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15901	actctctgtg	acatactttt	ccaggagcat	tgctgcttYg	tcatatgggg	agccccacag
15961	tgtctataaat	ctgatggcaa	atttttctaa	acctggacac	acacttctag	aagggttctt
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16141	tggacaaggg	gggttggtaa	atacatacca	tactagtttt	ctggggctgc	cataacaaat
16201	caccacaaaa	cggatggctt	aaaacaagag	aaatttattc	tcttacagtt	ttggaggcca
16261	gaagtccaaa	atcaagggtg	tggcaaggcc	atgctccctt	caaagcctgt	agaggaggat
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16381	caggccttcc	ttggcttggt	gcagcagagc	tcccactgcc	acctctgtct	gcacatgggc
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16501	tgaattaaag	acccatccta	ctccagtatg	acctcatctt	aactaattac	atctgcaacc
16561	accttatttt	caagtcagg	Yacatttaca	tgtattagg	gttgggactt	caacatgttt
16621	tttttctggg	gacacaattc	aaccataat	aaagcaggcc	agcaccacc	ccccctagg
16681	ggagagacac	tgaggcacat	attctgcact	gcctcccaga	cttctctgt	ggatcatgcc
16741	ccaggtgcca	cagcagtgac	ctgcccataa	atgcagcctt	tattggctgc	ctttaccttt
16801	tcactgccc	actggtgacc	ctgctggtgt	ttcctgggat	catctctcat	ataaactgct
16861	tgttttcaaa	tacttgtctc	agggttgtct	cctgggggac	cctgacctaa	gaaactatcc
16921	aaagtcaagg	cttatattat	gccaaatagt	atacctgcac	ttgcaacccc	ttgtcttaat
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17161	atacacaaaa	tgccagcctg	gcaatttcta	cacacacaca	cacacactca	caacatgggc
17221	actgctcacg	aggaaagctg	ctggaagcta	gagtgcacat	catatggcac	ccccagctt
17281	ccccctggca	tctgcttctg	tgaggttctg	cacattagta	catcttttca	ttttagtttg
17341	caaacacccc	aggggaggga	aacgtgaagg	tgtagatggt	ctatcaaaga	tgaaggagac
17401	taatacagaga	atcccaccca	atcgtgctg	ctcagacggt	acaattagga	ttctggggat
17461	gtcaccatth	cttcagggaag	agtgaaagaa	caatctagtc	cactgttttt	ccacttttta
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17641	tgtgacctta	tttggaatc	aggctctccg	agttaagatg	gggtcattag	agtttctagt
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17761	taccatgtgg	agacagaggc	agagactgga	gctatgcctc	ttcaagccaa	gaaatgcctg
17821	ggttaccaga	tttttctggt	acgggtcaagg	aaggattctg	ccctagaact	gtcagaggga
17881	acactgcctc	tgccaacaat	tcagtttcag	acttctggcc	tccagatatg	caatagaata
17941	cttttctggt	gttttaagcc	actcagcttg	tggcacattg	ttatggcagc	cctaggatatc
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18181	agggtcctat	tattacaaaa	tgaaaatata	caccatgcc	ctgtaaaaca	tagtataatc
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18301	agatcacctg	aggtcgggag	ttggagatca	gcctggtcaa	catggtgaaa	cttactacta
18361	ctaaaaatac	aaaaaaatag	ctgggtgtag	tggcagttgc	ctctaattccc	agctactcgg
18421	gaggctgagg	caggagaatc	acttgaaccc	aggagatgga	ggttgcagtg	agctgagatc
18481	gtgccactgc	actccagcct	Rggcaacaag	agcgaactc	tgtctcaaaa	caaacaaacg
18541	aacaacaaac	acataatata	atcaggagat	ttcaggtgct	gaaataatta	attaattgca
18601	gtaattacaa	ttctgcagtc	caggatcctg	acactcacat	atatgacagg	cttactgag
18661	aaagtatctg	ttgatgaaag	acctaagaaa	aggggtgtgag	ccatgtggac	acctggggca
18721	aggacatttc	aggcagaggg	aatagtaggt	gcaaaggccc	tgggtcagga	atgtgttttg
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18841	aggcagcagg	ggccaggtca	cgcagggtc	tctgtaggtc	ctggtaagga	ctttttgttt
18901	acaattggag	agttctcaac	ggatgactga	taggatttgc	tttatgttta	taacaacact
18961	ggctgctggg	ttgagtgatg	ctgttagggg	aagtgaaggc	agaaacacag	aaaccaataa
19021	ggagggcact	gtaatgacct	tggtgggtca	ttgtgatggc	aggttccaag	gtggtggcac

FIGURE 3-F

19081	tg ggaatggg	gagaagtgg	agaattctag	atctattctg	gagacagagc	tgacacgtag
19141	ggctgctgg	tttgggtgg	catgaggga	tgagaggaga	ataccaaggc	tttaggcctg
19201	agcatctgg	aaaacagatg	gggagactgc	aggagggact	ggtttggaag	ggtagagatg
19261	gggagctcag	atttgaactt	gttaagtgtg	agacgtgaat	agatacccag	cagagggtgt
19321	gagctgggta	tatgagccag	tgctggagga	aaaggcctgt	gttgaagact	gcatgtggga
19381	gtcatcatca	tagagacggt	atttaaagcc	ttaaaactgg	gtgagatcac	ctagagttat
19441	ataaatgagt	gaaagatggc	ctctgtttat	tggtcatag	attgtttatt	tcttcattgc
19501	aggctgacac	tgattactgc	agaagccaaa	ctcaaatttt	tacacatcca	attattttaa
19561	acaaatttta	tgccaatttt	tagccattca	gggccttgct	ggtacatacc	cggtgaaact
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19681	cgatgttaat	cccagcactt	tgggaggccg	aggcaggcag	atcgcttgag	ctcaggagtt
19741	caagaccagc	ctgggcaatg	taatgaaacc	ctgtctctac	taaaaataca	aaaattagct
19801	atatgtgggt	gcatgcgcc	gtagtcacag	ctacttggga	ggctgagggt	ggaggatcac
19861	ttgagcctgg	gaggtggagg	ttgcagtga	ctgagatcat	gccactgctc	tccagcctgg
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21361	aatttaattct	agtttatagc	tcctattttg	tgtcactcac	aggtgacagg	agagcactga
21421	gaggtcacta	cccacctaag	catttgattt	aggaaaagta	ttcccaaaag	gcaaaagaat
21481	gcctgctatc	atttcccctg	gattaatttc	tccactcttt	aaagtttggt	ggcttagaat
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21601	atccacagca	ccttggtacc	tgtcaaaagc	aaaatgaaat	gtcaaaatct	ttccagctct
21661	gttttaattga	tatctcagct	aagagtaaaa	aaaaaaaaaa	acaaaaacaa	aaaagcccca
21721	ggttattaat	agaactgtaa	aaagggcctt	ccaaaaggag	tgggtagagt	atgatattca
21781	tttctatgct	ttcaaagatY	ttgccctttc	tcataaaaaac	tcagatagct	gtgggtgcct
21841	agtaaagggt	aatacggtag	ttgaaagggt	actgggtgct	ttttaagtag	ctattcaggg
21901	acttacctct	ctcaccatct	gacctgtgct	acatagttaa	gttcaaggaa	aattataatc
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22021	ctctgttcct	ttctagcact	gcacttaaa	gcattacaaa	atcaggataa	agtgaatcct
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22141	ccaacacttt	aaaacaacat	gcaaacactc	catttttttt	Ycccaaagct	tcactatgta
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22261	atttgcttca	tacaatttga	gtgtaccttt	aagctaaaaa	atgccctgta	atgggtgcca
22321	tgctatattg	ccaagtaccc	tagtccagtg	gaggaacagg	atggatgtta	cagaatgatt
22381	tttgtctttg	acttcttgat	tgccattcat	taaagtgtct	ttctacataa	ctcctctggg
22441	ggctggatgt	ccaaaaatca	taaaattatc	cgttcatctg	ctccaaaggt	gaatgtccat
22501	tttaaacaca	agacaaaaac	atcctgtatt	tagctgtacc	catgatgtgc	atgcacacag
22561	tcgtgggtcc	cagtgggctg	ttcctggacc	aacagcacca	atatcacctg	gaaactactt
22621	gaaatgcaaa	tgctctgtac	cactccagaa	gtactgaaat	cttattctgt	ggggtggagg
22681	gccacgtggc	ctctgcttac	caagccctcc	aggggaatct	aagttttcca	atgctaagtt
22741	tgcaaacacc	agaattcaat	catctgtacg	cagattaagt	aaactatatg	aatgagaaaa
22801	aaaaaaaaata	cagattaact	tatgctgttg	gcatttgtaa	gatgagttca	caaggtaaca
22861	tgagcatgca	gggccttggt	agctcagacc	ccagaccctt	tgctcaagaa	actcaagaga

FIGURE 3-G

22921	aaagatttag	ggaacggaat	gcaacttgca	aaccagtaac	caggagacca	gccactactg
22981	attctaattct	atgcagtttt	ctgttctcct	tgtccaaact	tgattagYta	catgtgtgtg
23041	tgacaccagc	ttgcaacaca	ctccgtgagg	tgccaatcca	ggcatgtcct	ctacaataga
23101	cagaccacgt	cacaatcggc	cgaagccca	caggacatca	ctgactgcat	cactgttaga
23161	agaatcacag	taggaaacat	tttcattttt	atttattttt	tgagacagtt	tcactcgtcg
23221	cccaggtcgg	agtgcaatgg	cgtgatgtcg	gctcactgca	acctctgcct	cccgggttca
23281	agcggttctc	ctgcctcagc	ctcccaagta	gYtgggatta	caggcgttag	ccaccacgca
23341	tggctaattt	tctaattttt	agtagagatg	gggtttcaac	atgtttgtca	ggctgatcct
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23461	atgagccact	gtgcccggcc	gacattttta	ttctttaata	gcaattagga	taaggagctc
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23581	tctgagatgt	tccttgctgt	atgatacagg	cctattctat	gacaggagca	acgcaaacga
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23761	gggtaaccat	ctaatacatga	cagagttcct	cagcattaat	aatcaagaaa	ggcactttag
23821	ggacatttga	caaggaatga	cactaataca	atgagaaYtg	gtctaagtcc	tgcaacaagc
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23941	tacaggtggt	acaatctatg	tctccacttg	catgtgtatg	tatatatctR	tgtatatata
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24181	accctactaa	acctttctat	gcacaaaaaa	gagcagtaaa	ataaatactc	agaaacttcc
24241	caggttgtca	actattaaaa	taaaacctca	gcatttcaaa	aaagcttatt	ccgtgcagg
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24361	aggttgaaga	gaacggaatg	aacagaggaa	atctcttcca	tgaattgccc	tcctttcggt
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24601	cagaccaa	gcactgtgtg	cagaaataga	caaaaggcat	atactcctcc	ttcctagaaa
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24721	aagtttaatt	actaactgta	taattgcctga	gaacaaaatt	cagagcaatt	ctcaaaaggg
24781	ttaagagtc	gactctgggc	attttctgtt	tttagctgca	ggctcctcag	tctcgttga
24841	ttctaaagt	cttgcattag	atttgaggct	ggtgtctgct	ttaaagttgt	ccatggcaac
24901	ggtgaagccg	gagagaagat	aacccccacc	tccactcatc	agcagtttag	gatgacttcg
24961	atctggcaaa	acctaataca	gacagaaaag	acattcatgc	tttcctaaga	caataaagtc
25021	catgctaaca	acacataata	caaaaatcag	aattttaaca	acacaggttc	tcttgatgat
25081	ttaaatggac	attttttttt	ctttcttttc	ttttccctcc	ctccctccct	ctctcccttc
25141	cttcccttct	tcccttccct	cctccctccc	ttccttctct	tctctctctc	tctttctttt
25201	taagaggcag	ggtctcactg	ttcctcaggc	tggagtgcag	tagtgagatt	ttggctcact
25261	gtaacctcga	actcctggcc	tcaagtgaac	ctcccacttt	ggctttccaa	agtgtgggga
25321	ttacagataY	gagccacggc	accaggtctt	aaatggacca	acttctaagg	actaatttct
25381	tcacattaca	atgcaaagaa	aagtgtgtaa	attggtttaa	ttgattttct	ttgaaaaaat
25441	aaaactggcc	gggaatgggt	gctcacgcct	gtaatcccag	cactttggga	tgctgaggca
25501	ggtggatcac	aaggtcagga	gtttgagatc	agcctggcta	acatggtgaa	accccatctc
25561	tactaaaaat	acaaaaatta	gccaggcgtg	gtggcacaca	gctgtaatgc	cagctactcg
25621	ggaggctgag	gcaggagaat	tgcttgaacc	cgggaggcag	aggttgagc	gagccaagat
25681	cgcgccactg	cacccacact	ggcgacaga	gcgagactct	gtctcaaaaa	tgaaaaaaaa
25741	aaaaaaaaga	gaagaaaaag	aactgaagca	gttttcagtt	cagcccaggt	ttatctagaa
25801	actgaagcat	gtttctggcg	gagaatgggt	aatggctctg	gcagtactct	agaactgtgc
25861	atatagcttt	ctttctcctg	gcttcaggaa	gcttcattgg	caataatgga	gcttgggtct
25921	atggagagtt	tgctactgaa	tgtactacac	tccaaacctc	ccttccccgc	taccctgtta
25981	actctgccaa	ggcaacttct	ctcctctttc	tctgttaacc	ttagccaaga	cagacaacct
26041	ccacaaaggg	cagggttacc	caaggctcaa	tagcatcccc	actacagtat	ggtaagacac
26101	caagcaatga	gacgggcctt	acggcagcat	ggaggtgctc	ccctcagatc	tccttctcatg
26161	agggaaacagc	tgagaggcat	tcaggcagta	gaacacctcc	agctgccgct	cctttgggat
26221	ccactgcagc	attcataccg	agggaggcca	tgggttgctt	ccagtacgta	actgagcatg
26281	ggtaccagag	ctggagcatt	tctgtttaac	acaggctctc	ttgaatggcg	atctttccac
26341	ttgggctcgc	catcagcctc	atggagactt	tctccagagc	agcactgcag	gctcttccca
26401	ccatcctcct	ttctctaccc	gctccttgcc	caggcatcaa	cctgcaccac	caatcttgct
26461	ccctctcccc	ttRtctttct	aaggcatttc	cctcaataaa	tctcttacac	ttcaacttcc
26521	atcttagcat	atgtcttcca	gaagacactga	actgacacag	agcccaccag	taaatcctga
26581	aaacttgctg	caaaaacatc	ctggcagaga	ggaaagggcc	agtttctcat	ccacttggga
26641	attttgctat	tgtcaattac	atcatccaca	gtgatactga	ggccttgggg	aaataagaac
26701	cataatgggt	tgcattttaa	atgcctttag	ggcagagtta	cagagtaata	tattctgaca

FIGURE 3-H

26761	taacaagaga	aaaaaaggt	cacaaaaagt	caggggcata	ttctctgagt	aacagccatg
26821	agaaatctcc	atccctgtag	aaagaaacag	agacatctct	atTTTTatTT	tgTTTTgtTT
26881	ttgagagagg	gtcttactct	gtcaccaggg	ctggagtgc	gtgggtgggat	ctcggtcac
26941	tgacgctcg	acctccaggg	ttcaagcaat	ctttccacct	cagctcctga	gtagctggga
27001	ctacaggcac	ctgccaccat	gctcgactga	TTTTtatatt	TTTTgtagat	acagggtc
27061	gcccagccaa	tttatgtatt	TTTTtttTga	gagacaggg	ttcaccatgt	tgcccaagct
27121	ggtcttgaac	tcctgggctc	aagcgatctg	cctgccttgg	cctcccaaag	tgctgggatt
27181	acaggcataa	gccactgtgc	ctggctgaga	taactctatt	taatgacttc	tagtactact
27241	gcaaggaaag	tcaagtctcg	ggagggcagc	tcttgggact	ggctgtaaga	acacgtacct
27301	gataatTTct	gagccaggtt	tcagacagcc	tgaggttgat	gacccctccc	ctctcccgca
27361	gttttTgtga	gcattccaac	agaggctgca	gacaacaaca	gaattctgtt	aagaactact
27421	tcctgggatg	cagtttaaga	atcaacatct	agacataaga	attcctgccc	attccattcc
27481	agtattacct	ctttgtactg	acagtagacc	acaaacggcc	ttgaaggggc	cacaaagtcc
27541	agcaaagaca	gcagcagggg	agtgggtgg	aaacgactag	ctacaattaa	actgtaagga
27601	aaatgccaga	caaattatTT	ctctacaccc	tcaaagtTga	gcacaggttt	taaaatgcat
27661	ttaaaatgat	catgtattta	atttgcata	ctcacaaga	gaagagattt	aatataaca
27721	ttctagaaat	ccaaaacaga	atacaatcat	gagctatttc	ttcttaggaa	acgcgaacta
27781	ggttagaagc	tcttTgtgta	cttggcaact	ctaagtcgca	tttaatgaca	ttcttgattt
27841	tttaaaaaaa	atcacctgga	aacaaatcca	acactgcata	agctgctttg	tggtatctg
27901	ttatagcctg	tatcgagca	tttgagtTcc	ccatccccctg	catccagtgg	gaccacaRgg
27961	cccactTtga	tgcagtgatg	gagaagattc	aatttcttct	gaaaccctga	aaccagcatc
28021	atcaattccc	caccctgcc	agcctcagcc	tcctttcttt	aaaaaaaccc	ccaagacaaa
28081	atcctcatct	cgggtcccac	tagagtcaaa	gcagacaagg	agaaagagaa	tgccaatctg
28141	tctgaagcag	agcccacatg	cactgaggag	tctcctgcct	tcttccatca	acgcacccat
28201	ctgcgtttct	ttcactcagc	agagcggcag	cctctaaatg	tcttttccctc	tgctcttctt
28261	gtctcctctg	tttttcttga	atcttcaaaa	agaaaaataa	gaaatcaatg	tactggggctc
28321	tttcagtcaa	atttatggaa	atgctctggc	ctgtcaaaac	atttcaacaa	tatttatcaa
28381	cttggaactaa	accaaTagaa	gcaggttggt	tataaggaag	Ytgcaaatac	acaagaaagc
28441	ctatatacta	taaaaacat	gattaagcta	tctatgcaac	gcttctgtat	cctaaagctc
28501	catcccgaag	accgaatcac	acgtttgtat	acatgtacac	acactcgttc	tctgttttga
28561	tagttatcat	cttgggagct	aatacagcaa	agccaaacta	aatctcatga	cttaactgaa
28621	gttaacttag	ggactgagat	tatggggctg	gtggggactc	ttggcatcct	tacataatct
28681	tttttgcctc	ctctctcttt	aggcccttta	tgttctggat	cttgagaaat	tgtttccatt
28741	gtttcctggg	cttctgggtg	gttgctctct	ggggcctctg	ccatgctgtc	ttcattctct
28801	tgtYcagaag	cctgtttttc	ctccagtgtg	ccattacttt	cttcaaccaa	agcactgtct
28861	tttggctctg	aagataacat	cttggcagaa	aatgttccat	gtagaagact	gtccactttg
28921	ttgagaggga	attcataaag	accactcaga	aaagatttgg	gaaatccaaa	acatgtgttt
28981	gctgcccga	caggtcctcc	tccaggggat	agctgaataa	tggaagccaa	acctgaacag
29041	ataaaagaaa	caaacatctg	cccgtggagt	gactctagac	tacgtaaacc	ctcagtga
29101	cctccacagt	aatgagactg	aaggctcttc	tattagtact	ttattcagag	gctgaaggat
29161	ggtgcagctc	ctcagggagt	ctgtttggag	tctatgagta	ttaccaatgg	aggtaatata
29221	attctaaagc	agatagcagg	aaagctcaaa	gaagcttatc	cccacttgat	actattgtaa
29281	aaccctgtgt	ctgcaaattt	ggatgtcaca	tgattgggtga	cKgactctgc	ttccctcac
29341	tccgatcctc	aaatggagca	gttacaagtt	cttaccttct	atggggtcag	aaaaaaacca
29401	gacaaatcag	gctgtgttgt	attcttccag	agagaataca	tgcttagtaa	tcttccact
29461	caatcccttc	aatttaggcc	caatgaaatg	agcaccagct	acccaggagt	ttactaaaa
29521	cactgtcccc	aaagccctag	ccagccacag	gctccagcat	catgccact	gacagtgaag
29581	ctagaaagga	caattgccat	gggtttgggg	gtacccatgg	gtggggggct	gggtgatgga
29641	gactgtgtaa	gaaggTcccc	atgctaggag	ccgtgcaggt	tcacccaagt	cactttgtta
29701	accctgaagt	aattcaattt	ggctttccat	gagtttacat	ttttggacca	cctttactca
29761	catcaggggtg	gggttttggt	gaaaaTggaa	atattaaatc	ttacctccca	ttcgtttccat
29821	attgcacccc	agcaccagc	ctgcacagct	ttccatcaca	atcattttgt	tgccagcacg
29881	gatatttccc	aacgtcaaca	tctgggctag	tgtatcgtat	ctcatgtggc	taaagtaaaa
29941	acaataatTT	gttcatTTTT	agctaagtaa	agcctattat	tttaatcatc	atTTTTcaag
30001	ttttgtttgc	tttattaaaa	ttgtgttgat	aagattattg	attgcttttg	agggtgacagt
30061	aaaaggactt	acaatttatg	aggtaggagg	atactttatg	caggtgagca	agctttttca
30121	ttttacttaa	aatcatgact	ttcttaaaga	catatttccc	ccaattatac	ttttgaaagg
30181	aaacaaagcg	tacttaattt	ttccaggttc	tcttgcataa	tacataattg	aaagaatacg
30241	ggtggatggc	ttcacaacag	taatgatggc	ttcatatctg	ggggaagaaa	aaacagaacg
30301	ctgatTTaaa	aaaatgactt	aaaatTTTT	atttgtaata	aaatgtatat	tttataaaca
30361	tataagaagt	ttaatatTgt	gggcatttta	aaataaaaa	tacttacttt	tttttctctc
30421	ttttaatatata	tttatcttgg	gcaaatctctg	tcttgtctcg	gaatgttgta	ctattttcaa
30481	ttactgtctg	aactatttcc	tataagaaaa	ggagcaagta	gattttctga	aactttactt
30541	tcacaaaaca	agtaatttcc	aaaggcttct	tacccaagaa	tggtatccaat	ggctctgattc

FIGURE 3-I

30601	tccaatccct	ttccacaga	agtccaaata	gatgaacttt	atattttctat	actctatttg
30661	gaattttataa	taaaatacaa	gtactttata	actccactta	aaccaacgta	aaagaacaga
30721	gatatccaac	aaaaggagaa	gagaggtaaa	ggaaactaat	ttctgaagac	actggctgaa
30781	aacattactg	aaaatgaaca	aagttaaatc	ctgatatgSa	ctgttattac	attctctacc
30841	actgacatta	gtaatgtcat	tcacttatat	tcctgtatat	aagacataaa	atctttgaaa
30901	tggtgagtaa	catgtacatt	tcaacctatt	tctatcaaag	ctataacggt	atTTTTTgt
30961	tttaccttag	gtacagtctg	ctttaaaaac	ccaacagttt	cctaaatgcc	aaacagacaa
31021	aaacaaaact	aaaaatcctt	tgaatattac	ctctccttta	atgcccttgt	ccttcaaagc
31081	ttttatgtca	tcttgagtaa	gtttctgaga	tttcccatca	tcaactatat	ttcgattatc
31141	agtggccgct	tctttagtct	ctaaggaaag	aaattgctct	attgacattt	atgggtctgaa
31201	attattttgac	acttttcttt	tctgagtcca	tatccacatc	cagtccatca	gccactcaag
31261	tctggcctcc	cagctgcact	gcccccatca	cactatcctt	tcttgccaaa	actactccaa
31321	gcctctaagt	catcttcctg	ctcccagtct	tgcccccta	ctatccacct	ggatgccaga
31381	gtgctctttg	tttaaagtca	atttgactca	tctaccccat	gcttaaaacc	atacagtggc
31441	ttcccatagc	aataagaata	cactccaaag	atgacctgca	aggctataaa	tgatctggcc
31501	cctgcctatc	attcctggcc	tgactctgtg	acacttttagc	ttcagccaca	atggccttct
31561	ttctgttcct	tgaacacacc	cagcaaggtc	ccacagcagg	cttttgccac	ctgctgcttc
31621	ctctgcctgg	aaggttctac	gacagatgtc	tgagtggctg	gatcctttct	atcacttgag
31681	gctgagctca	ttctcttgct	ttaccaaatt	agtacacgcc	cctgctttat	tatcttcata
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31801	tgttccaact	ggtaagcaca	ttttatacga	cagtctatct	tatgaactgc	tataattgca
31861	gcgccaaatt	atacctggca	tatatttggt	gcttagtaaa	aatatggata	ttaatttaaa
31921	tgtatctaaa	taacaggttt	gactcaaaac	tttaaYagta	tttaacttca	aataattact
31981	tgtgttttaa	ttaataagat	actctcaatg	ttcattttta	taaatataat	tttaattaac
32041	aataacagct	tttggaacaag	aggttggttaa	gaaataataa	tagtaatagc	taaaattatg
32101	ggcccttact	aaaagcaaga	cactattctag	aacttcctat	gagtcatatc	atagaacact
32161	caatcaaac	taggcattaa	atgtgtttat	gaccctattt	tacatatata	aggatatag
32221	actcacagaa	atcaaataag	ttgcccacg	gtacaaggca	agtgatgaag	gtagaaattg
32281	aacttagctg	gatccaaaac	cagacctctt	aacctctaca	ccatatgcta	accacctcac
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32401	gcaacgactc	ataggattaa	atgcctggcc	caagaacaga	gaaccattta	atgggtgggt
32461	ggagccagaa	tccaggttat	ctcatggcca	aaggcagtac	ttgcttcact	ccactgagct
32521	gcagttctta	gattatgagt	taagatttct	tttgggatag	catggcctag	cacttgggaa
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32761	tttttcgaaa	gttacttttc	tagggaaaaa	aagtaatcaa	ttaactgaat	atcttttSta
32821	tccagtacag	aaaagacatg	ttcactacag	tttattttcaa	aagtgggtctc	cacaatggaK
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33001	aagactcatc	gaagtaacaa	ggatttaaca	aattttcttg	gcttgggtctg	atcggccatt
33061	ttatttgaaa	attatctaata	aaaagcaaat	tataacttgca	aataaaact	gaaactctac
33121	acacttgga	atggagccta	acactgacaa	tgctctactg	aggaccaggc	aacttgaggt
33181	ttcctatgac	atagattttt	tatcttattg	caattttaaa	gagaaatccc	acaggaacac
33241	aatSctttct	tctcaaaaga	aaactaacat	ctgctgagtg	ccaaccaggg	gctaggcagt
33301	gtgtgcgagg	tgtgattcac	actttttgat	tttaattctca	cggtaatcct	gggacatagc
33361	tctttccaga	agagcaatcc	gaggccagg	gagaagtatc	ttgtccaaga	ttcacagttg
33421	caaggtgttg	ttggagctgg	gattcaaatt	caaactctgtg	tctgacccca	agcctcattc
33481	tttccactat	accacacggt	ctactccagc	aaagacctaa	ggacggtaga	aagcccacct
33541	agcttcagga	catggcccat	gtgcacagaa	cactgaattc	tgggaatcat	gtggtgggta
33601	attctgattg	tgccccatcc	cactccttct	cttcttttct	ctgtgccacc	agggaactga
33661	ttacgcagaa	atatactgcc	acatcaccca	cgctcccgtg	tcagaggctt	accaccattg
33721	ctgggtctctg	ggtgtgtcac	ctttatttgt	ttccctaaatc	ggccacactt	ttgagtcaca
33781	tcttcattaa	agcttactca	aacctcttga	gggaaatcct	gtatgatcgt	aagtgattca
33841	gataYggcca	attcttggtta	tttgctgggt	ccctagatac	ttacatacaa	cagaatgtaa
33901	cagacactca	aaatatttgc	taatgtaaac	ctcctcagat	gttgcaattc	agctcagccc
33961	agatgtgcac	cccctatcct	catcctttta	tcacctaggt	gctttgaaac	actggatctg
34021	gccaggtgtg	gtgggtcaca	cttgtaatcc	cagaactgtg	ggaggccagg	tgggtcactt
34081	gagtccagga	gtttgagacc	agcctggctg	acggggaaaa	actccgtctc	tacaaaaaat
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34201	gcaggagggt	cacttgaatt	caggagtctt	tctacaaaaa	gtacacaaat	tagttactga
34261	ggaggctgag	gYggaagatt	gcttgagccc	aagaggcagt	ggttgcagtg	agccaagttc
34321	acgccactac	actctagcct	gggggaccga	gtgagatccc	gtctcacaaa	acaaacaaac
34381	agacaaacca	aacaaaaaca	ctggatctga	gatgggtggg	tttacctctc	tgagagccta

FIGURE 3-J

34441	tgtgatatgc	agaggggatg	atgcgtgtca	cttaaaactg	gctgggttga	caggtcactg
34501	ccccagtcg	gaatgtgggg	ccccgttaga	gggataagga	ggccacatct	ttactgggaa
34561	ggagtaggat	ttgcagagtc	tacttctcag	agagcctgga	ctgttttttg	cccaatcaga
34621	tgagtgtagc	cccaaggggtg	atgagggagt	ctgacctggg	atgcagctga	gctgagagag
34681	tcatttccta	aataaaatgg	aaactgccac	tatgacttct	gcgaagaaga	gggcctgttg
34741	aaaagtattt	caaataaat	gtttagggca	gtggctctca	acccttttgg	caccacaaaa
34801	ggggaaggtc	aactactggt	catgcctgta	atcccagcac	tttgggaggc	tgaggtggcc
34861	ggaattactt	gagcccagga	attgggagact	agcctagaca	acatagtga	actctgtctc
34921	tgcaaaaaaa	Rttaattagt	ttaaaaaaga	aaaaaaagaa	gaatttaaaa	atggttaaag
34981	gttggtgcag	gtattacatt	tccggactaa	aagaaacata	cccctcataa	aagaaacttt
35041	ttatctttac	ttaattagt	cttgtgcaaa	aagcttggtt	atcaccagct	tagtgctctg
35101	gagacttggt	tcttgactat	tttatgatgc	ttgcttcacc	ttaaatacca	gtcaacagtt
35161	tgcttaaaacc	aggagtaaaa	gaattcatct	gaagtaagta	cttatcagaa	attccaaatc
35221	tcatacttcc	cagtctgcag	aaagctgttc	tcctgacatt	gcattcaact	tatctctgtc
35281	aaaagtaata	caataaccta	gctcaaaaga	aactgtggcc	aggtgcggtg	gctcacacct
35341	gtaatcccag	cactttggga	ggccgaggcg	ggtggatcac	ctgaggtcag	gagttcgaga
35401	tcagcctggc	caacatggtg	aaaccccgtc	tctactaaaa	atacaaaaaa	aaaaaaaaaa
35461	gattagccga	gtgtgatggt	gccagagtcc	cagccactag	ggaggctgag	gcaggagaat
35521	cgcttgaacc	tcggaggcag	aggctgcaat	gagccgagat	tgcaactactg	ccctaaagcc
35581	tgggtgacaa	agcaagactc	cgtctcaaaa	acaaaaacac	tgtggttgta	tttctcagat
35641	aaattaatcc	aaatatccca	ataaattttt	accattaata	agctcttagg	acttaacaac
35701	ctcaccagcc	cttcagaaaa	gttatcaaaa	tccacttctt	ttacttctat	aaacacagagc
35761	gatactagcc	agcaggtgca	caaaccaaac	ctaatttgga	gttctgaggc	cttgagcaaa
35821	ttgcttttta	gcaattttcc	cagcgttgaa	tcctttggtg	agtaaaacga	gggaaactca
35881	aagtgattcc	acactctgtg	gtgaattgtc	tccttcatct	attctgtgta	tcctgcttgg
35941	gtagagaaga	g gatagaaag	ccagactagg	taggagacgt	ttcatttttt	gtgggataga
36001	tcctgactgg	gggattaggg	aagaagagag	atctatggtg	gaaaaaaagg	ggaaacctga
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36661	ccggtcgccg	tgctccacgg	cgteccgccc	ctcctcctcg	gttgtcgcca	ccgccagcct
36721	cacttcccac	aacctggcgc	actaggagcc	ctccgaccgg	caccgcccc	acgtgttgca
36781	cgccgcttcc	gctttccggc	ccagacctca	agaccgcttc	cggaagcctc	tcggcttccg
36841	tctggccaaa	ctccttgatt	ggctgcaatM	cgccccgccc	ctctcgtctt	gccgcttctt
36901	tgagcggaag	ttggatcaact	gaagcgccaa	aaaagaattt	aggggaagac	ctgattttcg
36961	cttgaggcat	ttttgcggcg	ctgtgcgcta	cagacacctt	ctggaagctg	cgggtgggaa
37021	actgagtttc	ccgagccggt	gagacagatg	gggttcagca	ccgcgcgggg	acgacaggaa
37081	agctgcggct	gaagagaact	gcggaacttg	caggagtgcg	ctgaggagct	aagatcccgg
37141	agactcttag	ccccgtgggtg	cttctctacg	ggagggaggg	agggagaatc	cggccggaca
37201	gatctgcgcg	tatcctggag	cggcccgagt	tgtgaactag	gagagctttg	ggacctctgt
37261	cccaagcaag	taagaacttt	agccttagga	gatgtaaata	aagtagtatt	tgaagaagca
37321	caggtagccca	actgtttctt	tttactcttt	ctccagtcct	acttcttaac	gtttttttga
37381	atthgttact	gttctcagca	tattgtctcg	tttgagaagg	gtatggcacg	cagcgttggt
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37621	taactaaacc	ccttttaagt	aaggatttgg	gtagagtatt	tgataatgaa	ttgcactgca
37681	gcgtacaggt	atatctttat	ttacttgtat	acttaggata	tgaatcattt	ttaagtagac
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37801	ctgcaggat	tgactgtatg	taagaagcta	tgatgatgta	tccctagtgt	ctcacaggcc
37861	agaattatgt	tcatacctgtc	ctgccctata	ataagaagtc	tcaaatactg	caaataagtt
37921	ttcatagagt	taattacctg	tcctattttc	atttctgtaa	tggggacttg	taaacaggta
37981	cagtacactgt	ccttattttt	aacctgtgag	cgtctagtat	acgtaaaacca	tatttaatat
38041	ttattaaact	attatggtat	accttaaaaa	gcgatagaga	ttagaaactt	aactgcagaa
38101	tatttgggtc	ttgtatcata	cgtgtacaac	tttgcaagcc	tgtttgctac	cttgcacct
38161	agaatacatt	aatttttccc	tttttattaa	tacattttta	agagcactat	tttctttaca
38221	gttttggtga	agaccttttt	aatatctatc	ttttaggaga	gatgaatgga	gagtatagag

FIGURE 3-K

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38401	gtacttcttg	taggtgaggt	caatgattgt	tcaatttttt	tactttaagg	aagcaattca
38461	cgtctatcat	acaaggcgg	ttatctcata	cttcagtttg	tctttttatt	catgctactc
38521	cttagtaagt	atttgaacat	tgatgtccca	gattttttact	aaaaccctta	atttggatac
38581	tctattaatg	agagtctcat	ttggaaaag	aagcatattg	gaaaaatgtt	cactctgttt
38641	ctactaacct	agtattttat	ttttttcaga	acaaacccca	cagtttttgc	tttcaacaaa
38701	gaccccaMag	tcaatgcagt	caacattgga	tcgattcata	ccatataaag	gctggaagct
38761	ttattttctct	gaaggtaggg	tttaaaaagt	acaaaaaagc	accataaatc	atattttctt
38821	aacttgtctt	tggatgctac	atcttgtatt	actgtaattc	atttactaac	atatacctgc
38881	tttaattctta	gttcacccaa	acaattaaat	gatgtttatg	tttcaaaagc	atttttagact
38941	ttatatcagt	caggaaagca	gaaaccatac	taggtatttc	aaaaagggga	cttaatacaa
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39601	aacctacatc	agtctgtata	ggtgcaggga	actgtctttt	ttgtgctgtt	aaaataacca
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41941	actgtgcttg	cctgagtttt	ttttcagggg	caggtaatac	aacatataatg	aaaacatttt
42001	taacttttta	aattttttta	attttatttt	tattttattt	tttgagatgg	agtttcactt
42061	tgttgccagg	ctggagtgca	gtgtcatgat	ctccgctcac	tgcaacctct	gcctcccg

FIGURE 3-L

42121	ttcaagtgat	tctcttgcc	cagcctcccg	agtggctggg	tgcaccacca	tgcccagcta
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42301	ccttgcccgg	ccaaaaacat	tttttaggct	agcaaacaga	tacatgcttc	aaggtaatga
42361	atagcaaatc	tcaggacagg	catacacaaa	gtgctggggc	attcagaggg	gcattcttct
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45841	gtgctctttc	cagtttttta	taagaacaaa	tgatactgca	gagaacattc	ttgtacatgt
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FIGURE 3-M

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48661	cggactgcgg	actgcagtgg	cgcaatctcg	gctcactgca	agctccgctt	ccggggttca
48721	cgccattctc	ctgcctcagc	ctcccagtag	gctgggacta	caggcgcccg	ccaccgcgcc
48781	cggctaattt	tttgtatttt	tagtagagac	ggggtttcac	cttgttagcc	aggatggctt
48841	cgatctccc	acctcatgat	ccaccgcct	cggcctccca	aagtgtctgg	attacaggcg
48901	tgagccaccg	cgcccgccct	tcatttctta	atggaggagt	agcaagggtc	taaaaagtct
48961	tgaagataaaa	tattgttgca	atcatatttg	gcaaatacag	tctgccacag	tctgaattta
49021	taaatgcttc	ttgagatcca	aacaccaa	aagtgcctgt	gtggcataat	aagtattaca
49081	ctctacagaa	agtcaaaa	gagcctagat	gagaaagctg	gggattaaag	aaaactctgg
49141	aaagcctttt	gaaaaggaga	ggattggcat	tgggcatgtg	ggacagaatg	agaggggtgt
49201	tgaaggagcg	agaggtggca	tgggcacaga	ggaagcaata	agtgtcttRt	gtgggaggca
49261	agcaaaagcac	ctgcataacc	catgacagga	taMgaacagt	aagtgagaag	gatcaattgg
49321	aaagtgcctc	aaaagctgtc	gatattaaat	tgttgcagga	ggaaatagaa	agtcattaat
49381	ctctcagtgg	atTTTacttt	actagcatcc	tgagaccaac	ttttaaaaca	atattaaatg
49441	aaatgtttta	actgaatttt	cctgaggtgt	gattatagtt	tatcaaaatc	tgaatgtgaa
49501	ttacttttgt	ttcattcagt	gtcctgtgct	tgtgtgtcga	ggcagggtcat	ttactgtctt
49561	ccgcagctct	cctctcacag	ttacagtgga	ctggcagtc	atcaagtaag	cgatcagact
49621	gttacataaaa	aggcaggctt	tagatgtcac	actgttgaga	aaatccataa	ttttactgta
49681	ttatattgta	cgttttatct	aaatgacaaa	gtgtataata	gtgtataata	gatgggttat
49741	ttgatgaaga	gtttgtatgt	taaaaataatt	cttttttttt	tttttttttt	ttgagacgga

FIGURE 3-N

49801	gtcttgctct	gtcaccacag	ctgcagtgca	gtggcgcgat	cttggtcac	tgcaagctct
49861	ccctctgggt	tcattgccact	ctcctgcctc	agcctcctga	gtagctggga	ctacaggcgc
49921	ccaccacaat	gcctggctaa	tttttttgta	tttttagtag	aggttttagtt	tagagggtttc
49981	accgtgttag	ccaggatggg	cttgatttcc	tgacctcgtg	atctgcccgc	ctcagcctcc
50041	caaagtgtctg	ggattacagg	cgtgagccac	cgctcctagc	ctaattgtct	ttatttgaaa
50101	tttattctct	gtcagattcc	agaaaggatt	cattatgcaa	atattgtgtc	ctaataagaa
50161	atagttgatt	ttatatctca	attatgtgat	taattgaact	ggatataggc	cataagcaaa
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50521	gaaatgagat	ggtcctaaga	actaagaacc	tagggaaaag	ataagatgat	ctgctgctaa
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50641	tatagtgaga	tctttacaaa	caccccat	tataaaagag	gaaatgggta	agactcttga
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51121	ttttaaaat	tcaatcagtg	tggaaaggca	cagtcccccac	aacttgctgt	tacattatac
51181	ataacttttag	ataccattct	tgtgtcttct	atccttcgct	ttactgcagt	cattctatgt
51241	gagctgagga	cattagaaac	atacttgttc	ttttatcttc	tagactttct	ccgttccgac
51301	attacttttaa	attgtcaagg	tttacctttt	gtcttcta	tataattgtc	tccagagtt
51361	tattttatagg	tcattgtctaa	caaaaaacat	aaacaggcat	ttacattttt	atgttaataa
51421	aaatgcccga	tatggcattc	cccgggataa	ataatatgag	cttctgactt	ctccctccat
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51541	tttatccccc	cttagcaaaa	aacctagcac	atgcacaagc	ctctgtggat	ctgacctatc
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53281	tggtgctctg	ctaagaacgt	tggttcccac	tttgcttgta	cgcttatagc	ttttgcccac
53341	gtgtattctg	gactttattt	tgttttatcc	atcaatactt	taccatttgc	tggtttcaaa
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53461	tcattttggt	ggacattttg	gagggaggct	aggcaaatac	atatgttcat	ttggctatct
53521	tgaattggaa	actgctgaag	taattttaga	tataaccatta	aactgttaat	aagcaaatct
53581	gcttttatct	tcctcagcat	catgtgaacc	ctgaatagtt	aatatcttgc	agaaaccatc

FIGURE 3-O

53641	caaagtaagt	attctaactg	aaaactat	aaacttttta	gaatccagga	attgatgtct
53701	gatgatcaga	gagaagcagg	tcggattcca	cgaacaatag	aatgtgagct	tgttcatgat
53761	cttgtggata	gctgtgtccc	gggagacaca	gtgactatta	ctggaattgt	caaagtctca
53821	aatgcggaag	aaggtagggg	acaactcttt	tcattatttg	tctctcaata	atgattcatc
53881	aacgttcac	ttttctaaga	tgctcctgaa	cctcaaataa	tttgaggaat	ttcttgttgc
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54061	acttttaatt	tacaggttct	cgaaataaga	atgacaagtg	tatgttcctt	ttgtatattg
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56041	gtgctcttaa	cttagcggtg	ctggggtggg	cttgagtgta	gtcctttgag	cagtgggcca
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56941	tatatataaa	gggaataaag	actcatgttt	tactcctgat	ttctctctcc	acctattttt
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57061	taattttttt	tagagacagg	gtcttgctgt	gttgccagg	ctggattgcc	gtggcacaat
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57241	tagatatacgg	ggtctcactt	tgttgccacag	gctagttttg	aacttttggg	ctgaagcagt
57301	tcttccacct	tggcctccca	gagtgcttgc	tgggattaca	ggcatgaacc	tgtaaaccaa
57361	aaataaaaatt	ccaaggcccc	ccaccatttt	aaacagactt	ccttctcagc	cagggctctt
57421	aagatttaac	ctgaaagact	gattcaggcc	acaaagggaa	gtgggggtca	gacatgcctt

FIGURE 3-P

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57601	ctacaacctc	ttgcatccca	aacattccctt	tctattgatc	ccaggctctt	agacaaactc
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59761	agaatagttc	aggggagtta	aagcagggtc	acctattctc	cctcatataa	gtacataaac
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60601	gggctcaagc	agatccacct	gccttagcct	tccaaagtgc	tgggattaaa	ggtgtgaacc
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60721	gaaaattgac	cagggtctct	ctggcccttt	agtaagttgt	agtagtatgg	ctcctaaatc
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60841	taccatagcc	cactgcaagc	caattgagtt	aagagtttct	aagttagggt	cctagtgtct
60901	atatgtgtac	aacagtccac	agatgattct	aatatgcagc	cagccttgag	aactgctttg
60961	atcttgtcat	tacattataa	acccactgtc	cttcatatct	gagtcacctc	ttattgcctg
61021	tggttgagtg	ttaaaccagt	catttttaatt	cctagatatt	attataaatt	catagatat
61081	tcatctatgt	ttggttcctt	ttggccactc	ggggctactt	tttaaaaaat	aaattctggt
61141	ctgagacctc	gctacaatgt	agcctgacaa	cagaggctca	gggtacccct	tacaggtgaa
61201	acaaagctca	tcatgaacag	gaatctgggt	gcagtggctt	acgcctgtaa	tcctaacact
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FIGURE 3-Q

61321	aaagtggagac	cctatctcta	caaaaaagaa	aacaattagc	tgggcatggt	ggcgacacac
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61441	aatgcaggga	gccatcggtt	tgcaactgta	ccccagcctg	ggcaatagag	caagaccctg
61501	tctttaaaaa	aaaaaaaaaa	gaaaacatta	tgttttagaat	atgtaggaaa	agatgcaagt
61561	ggggatctga	attgtttacag	ctttcttttc	tgtcttttgt	gtggtatacc	tgttcgtgtg
61621	tgttaactttg	gaattagtga	attataggtg	ggagcctggt	ttaacccta	gagtgcttta
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61741	ctcttttttt	tttttttttt	gagtcggagt	ctcgctctgc	cgcccaggct	ggagtgcagt
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62641	gccagcgacc	cagagacagc	tcacgcccaa	aattctctca	gccccgagga	aggggctagt
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63361	gataattact	atttattgag	ccagcagcat	aggataacag	tgggtgtttg	agatgtgaat
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64981	tttagtagag	acggggtttt	accatgttgg	ccaggctggt	cttgaactcc	tggcctcaag
65041	tgatccaccc	accacacctc	ccaaagtgtt	gagattacag	gctacaggcg	tgagccacca
65101	cacctggcct	acttcagaat	gaatagtttt	gccgtattgt	aactgaactc	attgggtttt

FIGURE 3-R

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65221	ctctacattg	ggctttgtca	cctaagtttc	tctttgtgat	gccttcacct	tattgggaaa
65281	acatgtttcc	atgcatgtgt	caggcagtg	ccagattcca	gtccagttaa	ggtcgttcat
65341	tccttctggg	ttgccagtg	cttccatatt	ctgaaccag	gacctggtag	ccacatttga
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65581	ccttcttggg	gatcttgtat	cgtttcattg	gctttaccta	cctatccgtg	aaaaattcta
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65881	cttgttggct	gtaccatcaa	aatataatctg	ctatctaacc	acttcttcat	taccctgggc
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68881	ttgtgtgtgt	atgtaacatc	acaccatttt	gaatttaact	ccttaagcat	tttgagaatt
68941	actcttacct	cctcttcgtt	tttgtaatcc	tcacaacata	gtgctgtgag	tatgaaaaat

FIGURE 3-S

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72421	aagggtgtgc	cttgacttct	cttttgaagt	attttctgca	taattgactc	cattttcctt
72481	tctatagaga	gatgttagaa	atggatggat	gaaagttttt	taaaagattt	tgtcatgtct
72541	ataacatata	caagtatagc	tacttctttc	tagtcacaga	atcaattact	tagcatgcaa
72601	gttttctttt	gttttctttt	gactcactct	taggagactc	ctggaatatc	tgaaaagtgg
72661	ttagggttaac	taggagtatg	agaccacagt	tgagtatatg	ggaacatgga	atgtgtcagg
72721	tatcttgagt	attttatttt	tttacaatgac	aggtccacaa	ggatagttcc	tgtgttttta
72781	acagcagtaa	tatctattca	cagtttgaaa	tactaagaga	actctggcag	taaaaattag

FIGURE 3-T

72841	ctagctcaga	gtttgggctt	tttgctccta	aaatctgatt	aattcttctt	tgttgtttta
72901	ccatattggg	taggtatgat	ttcctaaaag	taaaaggcaa	gggaaaacca	agtgtatttc
72961	atcatcaaat	ctcctgaaat	gatcactcag	aaatatacgt	taacaagtaa	aaatgagggt
73021	tatccttatt	ttaagtgaag	tgtaattttc	atagtcaagg	tttcacagat	tttttttggt
73081	tgtttgccct	gagtcagggt	ctccctctgt	cacctaggct	ggagttcagt	ggcatgatca
73141	agcctcattg	cagcctctcc	tcccaggctc	aagggatcct	cccacctcag	cttcccaagt
73201	agctgggact	acaggcatac	accaccgcac	ccagctaatt	tgaaaatttt	tttgtagaga
73261	caggctctca	ctttgttgct	caggctgggc	tcgaactcct	gggctcaagt	gatcctccca
73321	cctcagcctc	ccaaagtgtc	gggWttatag	gcgtgagcca	ccacccccag	cccagagaat
73381	tacttccata	ttttgacttt	tgatgttata	accttcctcg	cctaaagggtc	agtttttgtg
73441	taaaacaagt	aaatgaagta	aagcttagac	atactatggt	aaatatattc	atctttcgtc
73501	atctgaaaaa	ggtgttttct	tttaaaggca	cgagcaagggt	tggaattgag	agaggaagca
73561	accaaagaag	acgctgagga	tatagtggaa	attatgaaat	ataggtaaga	taaaaatttc
73621	aaattgtttt	aaatgaaata	ccagttatct	tcccatctca	aattaggtaa	taggccaaag
73681	ctacttttat	ttagcccatt	gggtcactta	ttttcctcct	aaacagagta	ccgtttctta
73741	gtttaaaata	tttctcactg	tgtaataaat	ctttacatta	gaaatttttt	tgaatgagta
73801	atacattttac	atagtgtctaa	aatcagttcc	aaaacctatt	ggagaagagc	tattttaccac
73861	ctactcgccc	ttcaccacga	caccctatgc	ttttccacag	tctgctgttt	atactcttct
73921	gtactgggtt	tgaaattttaa	caatatatcc	agagatcttt	ttttattaga	gactcttttt
73981	ttatagctag	agtattctat	tgtgtagata	tactatatag	tatatattgat	cagtccccta
74041	ttgacacata	aatattttcc	attcttgtgc	ttttaataaa	tgctacaatg	agtaagtgtc
74101	tacgtaagat	acttcatatg	tgggtaaggt	gtgcacctac	gtgataaatt	ctcagaagYg
74161	atattttctgg	gttcaacagt	aaatactata	gggtttttgat	aaatattgct	aaattgtatc
74221	ctttgcatth	tacatcatth	agtagataat	gattcctaga	aggtagaaaa	gaaaaattag
74281	ttgagcatat	atgtttacct	tagacataga	tttttaaaaa	tcagtaatat	tattttgggt
74341	agtttttttt	attccagata	aaaaaatttt	tttaataggt	ccatactttc	ataagcttca
74401	aaattccaaa	gttcaaaaag	tataggtcag	gtatgggtgc	tcacacctgt	aatcccagca
74461	ctttggggagg	ccgaggcaag	tggatcacct	gaggtcagga	gttcgagacc	agtctgggca
74521	acatgggtgaa	accccgctct	tactaaaaat	acaaaaaatt	agcYgggctg	ggtggctagt
74581	gcctgtaatc	tcagttactt	gggaggctga	ggcgggagat	ttgcttgaa	ctgggagggtg
74641	gaggtttgac	tgagctgaga	ttgtgccact	gtactctagc	ctgggtgaca	gagcaagact
74701	gtgtctcaaa	aaaaaaaaaag	tatatagtgg	aaaaagtttc	ctcctactca	gcttaatagt
74761	taccccgctt	ttcctgctag	ccagtggtcaa	ttattagcag	ttttttgtgt	gactacatat
74821	ctatatattc	ttttttcccc	tttgtagaca	aatggtaact	ataacaacat	accatatata
74881	tgctataacct	tgcttttttt	atttaaaatg	cattttttaat	atcctctgat	agcaatgaaa
74941	atacattatc	tgtaggagt	ctacttttcc	aagaccaaaa	aatatattga	agatgaaatt
75001	atctaatttt	gttaagtaat	ttctaattct	tctaaggtag	atgaattctt	ttgtctagt
75061	agctgctgat	tctgagggtt	gcgtgggtgc	agaaccaggt	ggttttgccc	agggtgggtt
75121	gcccagctat	tccccttttg	ctgtgaataa	aagtgcagca	tagctggaag	agcaagggtc
75181	ttggagttca	acctggagct	gccatggcag	gttacacact	gcttctcagt	ttcctctggt
75241	gtaaaacaca	ccacaaagga	ttgtgctctg	aggtgtcatg	cagtgatgct	caataaagtg
75301	acgaatacgg	ttctgatata	ttagagaaca	ctcagtaaac	actgtttact	atcaaatgag
75361	caagtctttt	tttttttttt	ttgagacagt	ctggctctgt	cgcccggtgt	ggagtgcagt
75421	ggtgtgatat	tggctcactg	cagctgcgc	cccctgggtt	caagcaattc	tctgtcctga
75481	gcctcccatt	tagctgggac	tacaggtgca	tgccaccaca	cctgctaatt	tttgtatttt
75541	tagtagagat	ggggtttcac	catgttggcc	aggatggtct	caaagtgtct	gccttaagtg
75601	atctgcctgc	cttgtcctcc	caaagtgtct	ggattacagg	catgagccac	cacgcctggc
75661	ctgatagtgt	aagtttttgt	gatactcaga	tgaggctgag	cagatcccc	tttctctgag
75721	ttataccata	aaccaaaggc	ctcaaaaact	ggcagatctc	accctagata	agaagtttcc
75781	aaaaatcccc	ttttcaaaga	atttttatgg	tctagtcctc	agtgtctctc	atctaaattg
75841	ggcagtatgt	cttagctgca	gatccctttc	ttcttgtctt	ttcctcatag	ggagagactt
75901	tacctagtgt	tctctttgtc	cccagcctgg	tactgcccc	tccctggagg	ctgtgtctt
75961	ctctctgctg	cctctagagg	tatgcagatg	ggtagaagg	cacccatgtc	acctcctgaa
76021	ggtacaagaa	tctgcaggtt	gtttcctgcc	cttagagggg	gtccatggaa	gaagaggaac
76081	ctttctcctt	aattcagctc	cagagtttgt	aagcaaccgt	gaggttctac	tggtgtctt
76141	tgaaagcttt	aaagattcta	gaattgacag	ctcttaattt	tttattggtg	gcaccaaagt
76201	aactgcctca	taataagaaa	aattaataat	tattgactcc	caacccttgg	agctaatttc
76261	taacaactta	ccttctgtgt	ctaagtatcc	tattggtatg	gcatcacaca	gtgctttttt
76321	ttttttctct	tttatttaga	cagagtctca	ctctgtcatc	caggctggag	agtacagtgg
76381	cgtgatctca	gttcaactga	acctctgcct	cctgggttca	agcgattctc	ctgcctcagc
76441	ctcctgaata	gctgggatta	caggcacctg	ccaccacgcc	cagctaattt	tttgtatttt
76501	ttggtagaga	cggggttttg	ccaagttggc	caggctagtc	ttgaactcct	gacctcaggt
76561	gatctgcccc	cggtggcctc	ccaaagtgtc	gggattacag	gtgggagcca	ccgcgcctga
76621	catcacacag	tccttgacct	atcaattttc	tctctttatg	tgattcagta	ctagggtttg

FIGURE 3-U

76681	agggatcttg	tagctgaaaa	ttttaccaac	ctggcttttag	tccctctcca	gttgatctca
76741	ttatgttgga	gacctcttag	ttgccattta	taagcaacca	gatagtctag	gaatttacta
76801	gactttctca	tacaacttgc	tgctaggggc	atgggtgtgct	agcatatgaa	gtaaaagaat
76861	ggccacaaaa	tctagtgtgc	tgcctgactt	cttggtgggtg	tggcttttcta	agagaccaga
76921	ctagagactg	acctagcaga	gatatttttt	cccattagga	aagtaagtca	caacccaacc
76981	aaaatttcag	aatttttttt	aattttaact	ttttttccta	taaaaaaaac	aaagaccaaa
77041	aataggcact	tcttatttaa	tgatgagaag	ttgcttggtg	acttacagtc	tagaatgtgt
77101	gcactctgct	ttctctgcat	cctgcacttg	aacactccac	ctttgggagt	gtggctgaga
77161	ttcccactcc	tgatttcttt	ttccttttaa	tgatctctgg	ccctctgggt	cttctgggtgc
77221	ctggctctcc	tgaatgtcat	gtttctactt	tgtagactgt	tcatctgtcg	agcaaaactaa
77281	ggggtacact	accctgctcc	ttttctctct	taacctgtaa	cattctcctc	ttgaggcttt
77341	accattgtct	aatttctgca	ggccttagac	catagacgtc	acctcaactg	tttactgttt
77401	ccccacagta	aattcactgg	tctgtggaca	cggtagatta	gttctcctat	ctgagcatca
77461	tgcttaagca	gagtaaatga	ggctatatatt	accttttcag	taaaaatgct	atattgcccc
77521	tttatgggtg	gttatacttg	gtataagatt	tctctgcatg	tctgaatact	catgttggac
77581	agtgtttgca	tgtgctttcc	tgtccaagag	gaactcttaa	gtgttgctct	atggaactct
77641	gtatttgtac	tgcttcccag	agttgctttg	gtggtaaaat	tgaacaagtt	tcagactcagt
77701	ttacatctgg	gcccctgaaa	aaaagaggtc	ttattattaa	gtgtaaacag	taccacatg
77761	acattaccag	attgtttccc	tgaattgtct	cagtatgttt	actggcattc	ataaaaaattt
77821	tcaggaaaaa	gaaaaatggt	tgattggaat	tacctgacac	tatgttcatg	gtagagatca
77881	agatccagtg	aaacacaatg	atgaattatc	atgaattatc	tgtttggtat	gctcacatg
77941	cattctttcc	ttagtttatg	agagcaggga	ccttatctga	ctcatttacc	agtatatcc
78001	cagggcccg	aatcatgcct	gtcataaagt	aggccttcag	taaatgtcct	gcactgatag
78061	taaagttgac	cttagtaatg	attcattcat	tcattaaatc	ttccatttca	gagttttcat
78121	ctcttcagct	tcgttcagtc	tttgccctta	atgtgggttt	aaacctttta	agattacatt
78181	tgactggga	agcYgacagt	tgaataagaa	aattctttaa	ctgtgacata	gcttgtctga
78241	gttaccagag	cacttagctg	tattttaaaa	aactaaatgc	ttatatattag	tagacagttc
78301	acataagctt	tctcctaaaa	ttgaaaacat	actaggtagc	agaagagaa	agagccacct
78361	tcaaaggtga	aagatcattg	tttttttcta	tttcaggaaa	ctagctcaaa	tattttacat
78421	agctttttta	aatctgaagc	agtgtagcag	attcaaactc	gagatatgcc	acttactagt
78481	tgtgtaaact	ctggcaagtc	actttaatct	tagcataggt	tggtgcaaaa	gtagtgcag
78541	ttttttgcat	aagaaaaagca	atttcaaaaa	cctctattac	tcttgcaaca	acttaataag
78601	aatgtttttt	catccgtaaa	atgggaataa	gaatagttcc	taaatcacag	gattgtctggg
78661	aggattaagt	gggtagcct	atgttaaaaca	aatataatta	agataaatgt	tacctattat
78721	tattaactga	aagcattttt	aacaactttc	tcatgagaaa	caagcatatg	ggaggttcat
78781	cttaaaagag	attatgctgt	atttcagagg	aaaacactta	ccatcttact	gttttatcat
78841	ttttaatagt	tttatttgaa	tgactcattc	ctattttgcat	aacgtaggct	tttaactatt
78901	caaggaacaa	aaggaagctt	tattgtttat	aaccatttaa	aatcattcct	gcagctcatt
78961	aaggggaagg	attatacctg	ttttgttcac	cactataagc	ctggtgcccc	gcaggtgacc
79021	agtatgtatt	tgactaatta	attaattcct	gattaaataa	cagttttgac	aattagtctg
79081	gctgtgaaat	atagctatcc	actgtttgag	gcagggaatc	agcaataRag	ttggattaaa
79141	caggatgggt	aattatgttt	ctaactagtg	ttttcagact	ttagctaaaa	ttcactatca
79201	agtacgtact	tctttccttg	gtgatattgt	gaaaattaga	gaaagcagaa	gaaatctggc
79261	agtaataggt	gcatacctta	atatctaacc	agtatcactg	caactcacca	taacctttct
79321	agttcattcc	tagagtattt	taaatacctt	ttatttaaaa	tactgggtcg	gccagatgct
79381	gctccaggag	atRggacaca	tttttattta	gtgaagtcta	aatttattat	atttagaatt
79441	tcttttcttc	atgaatcaaa	aagaatgtcc	caggatattta	tattgtagtt	tatcaatttt
79501	gtgtttttat	gcatttctct	ctccaaattt	agaagtttct	taaaagcagt	aactgtgtcc
79561	aaaatatttt	tattccttat	caatccatca	tagtgaattt	cagagtggcc	cctcaataaaa
79621	cacatgttga	aatgttttgt	aagtgagcct	tgtggctact	tccaaatttt	tcttctgtaa
79681	cctgaaagcc	caggacaaca	atttctatgg	cagtgtctaca	ttgggtaatt	ttttcttctt
79741	ttctttttta	gcatactagg	aacttactct	gatgaatttg	ggaacctaga	ttttgagcga
79801	tcccagcatg	gttctggaat	gagcaacagg	tcaacagcga	aaagatttat	ttctgtctct
79861	aacaacggtg	ctgaaagaac	ttataataat	atatttcaat	ttcatcaact	tcggcagatt
79921	gccaaagaac	taaacattca	ggtatgttaa	actagttaat	ctctttttgt	ataatttcag
79981	gagggtcctg	ttaatatata	gtagaacaga	aacagttttt	acttatttaa	aattcatacc
80041	tgcttcttct	caaagggttt	cagcatcttg	atagtcagag	ggaaacattg	tagtaagaca
80101	gtctctatgt	ttttctgact	gtctctgtgt	gatatgtcat	tttaacatct	tttaacgttg
80161	catccctcat	ctgttaaatt	gacatgatta	taccaattcc	tacttcaaag	ttctcgtaga
80221	aatcaatgta	atagcacttc	aaacatgggc	tgttacacat	tatggaaaaa	taacttctta
80281	atttcaaaag	ttagcttgat	ttttttcagc	taacctaaaa	caaagtgaat	atattctctg
80341	catattggaa	tttttacttt	ttattttatt	aggcattata	gaatccagaa	ctcaaatata
80401	ggcagtttgc	tctgtaagaa	ataaaaaata	ttttatttgg	ccaagaaact	ttacaggtac
80461	atattattat	ttgagagatt	tattttaaaa	gtaatatatt	gacatgttac	ttaatgggct

FIGURE 3-V

80521	aaacctttttg	atgtttttctt	ccagggttgct	gatttttgaaa	atttttattgg	atcactaaat
80581	gaccagggtt	acctcttgaa	aaaaggccca	aaagtttacc	agcttcaaac	tatgtaaaag
80641	gacttcacca	agttagggcc	tcctgggttt	attgcagatt	aaagccatct	cagtgaagat
80701	atgcggtgcac	gcacagacag	acagacacac	acacacacac	acacacacac	acacacacac
80761	acacacacag	tcaaatactg	ttctctgaaa	aatgatgtcc	caaaagtatt	ataataggaa
80821	aaaagcatta	aatataataa	actaatttaa	gaagtataa	agtctccaga	tgcagtagct
80881	cacactgtaa	tcacagtgac	tcaggaggct	gaggtgagag	gattccttga	ggccagggtt
80941	cgagaccaac	cttgggcaac	atagcaagac	cccatctctt	aaaaaaaaa	aaaaaaaaat
81001	taaacttagc	tgggtatggt	ggcacatgcc	tatagtctca	gctacttgtg	aggctgaggg
81061	aggaggattc	tttgagccca	ggagtttgag	gttacagtga	gccacaatca	caccaatcac
81121	tgactccag	cctgggcaat	aaagtaactc	ttgactcaaa	aaaataaaaa	aaattgtagt
81181	ggtagccatg	tgttaattgt	taataaattt	ctccaaaggg	ctaaaagtaa	attacttata
81241	aattttttat	agttgtattt	ttgacctgcc	ttttatatgt	atgaatattt	catagttttg
81301	catatcagat	gtaggcatat	agacaaatca	ataaaaccaat	gaatatatta	catattctgt
81361	gttccaataa	aactttattt	atggacacta	aaatttgaat	ttcataaaaat	tttcccatgt
81421	caagaataca	aaatacttga	gttttgtttt	tagctatttta	ataatagggtc	tcatttattc
81481	cacaggctgt	agtttgtagt	cttcttgtaa	acaatagaaa	cagactgatt	aagcaggaga
81541	agttttttga	aagaattttg	tttggctcac	ggaattatYa	gaaggcaggt	gaaccaggag
81601	ggtaaacttc	cagcagcaat	ttgtaaaacc	atgccttaga	attggactaa	ggaagaagct
81661	gctgacactc	cactgccaca	cagggcactg	gaagaaaagt	ctgctgcctc	cctgccccac
81721	ctttgccact	tctgcagcag	gaataggtag	aagaatgccc	ccaccgcac	cggaacagca
81781	acaaaaggat	tctgcatgag	atgcctccct	aaattgctga	attcaaaaaa	gaagttgcat
81841	acaaagacat	ctgattgaaa	aagggtatgt	tatatgcccc	tttcataggc	tgctaggagg
81901	ttttcctggt	tctactttca	ggtggtggga	tcaataagac	cagaatttct	catatgttgt
81961	gagaggattc	aaatgttaca	gggttgccag	ccaaactatc	aatcatgtat	aaatccaaca
82021	aacactttgt	aacatacaag	aactcaggaa	atgtgaacca	ttgttgagga	atctactaaa
82081	atcaggcttc	ccgcaaacga	agatgaatgg	aaaatgtaaa	taaaaagaac	tggcaggta
82141	tatcagatgt	ttaactatag	gaccagaact	aagatgtgga	gactattgcc	atagaccaca
82201	atgtaaattt	ttaagttagg	aaggaaaaat	caggaatcaa	aaggggccag	gtgcagtggc
82261	tcacatctat	aatcccagag	ctttgggagt	tcgaggcagg	aggatcactt	gaagccagtt
82321	ttgagaccag	cctatgcaac	acattgagac	cctatctcta	caaaaaatag	attagctggg
82381	cacgggtggt	catgcctatt	gtcctactta	ctgtggaggc	tgaagttaga	aatacacttga
82441	gcccagaggt	ttgaggttac	agttagctat	gattatacca	ctgcaactca	gcctgggcaa
82501	gagagcaaga	ccttgtctct	taaagaaaaa	aaaaaaaaat	ggagaaagta	gatagtagta
82561	taaatatagt	gaaRtcttta	aaagctagga	gttaaaagat	atttaaagca	aataactcag
82621	gcatggtggt	gtgtgcctgt	agtcccagcc	actaaggagg	ctgaggcagg	agaatcactt
82681	gaacccggga	ggcagagggt	gcagttagcc	aagatcgtag	cactgcactc	cactctgggc
82741	aacagagtga	gactctttct	ccaaactaaa	taagagatat	ttaaagctga	aaaaaaatct
82801	attaatagaa	tttaaacaat	ttcacaaaag	tcaacacata	aataatatca	acaaaaataa
82861	agtggtagac	agaagagaaa	atataactaa	ttattgttca	aagaggaaaa	taagtctcaa
82921	aggttaaggc	tattatataa	atttattttt	aaaaagacat	aaacctacat	tttcagaaga
82981	agaagtcca	tgtttcttta	gattatgtat	ttagcatcca	ttaatcacag	ggccacaacta
83041	acaacaaaag	ttgttttagct	ttcccttaca	atccagcttt	tatgggtgtg	caaacatcac
83101	attacagtcc	ctccaaccac	aaaccccaac	atatagtatt	tcacttctctg	cccaatagtg
83161	ggtgtcccca	cacctttcaa	ccactgtagc	aacaaagctc	tggcctaggc	ttttcacttg
83221	cttctttact	gcctgactga	ctttggtggt	tctcatgtg	gctggtgtg	gcatggcacg
83281	ccctcttggt	agatgaaagt	aatcttccat	aggcaattgt	ttctgtgtca	ccattgctga
83341	ttaaaacaaa	tcctaagtac	aatgttcaga	acagaaacat	gcaaagcaag	aaaacattac
83401	atcatgaaag	tttctttttt	tttctttttt	cttttttttt	tttttttgag	acagagtttt
83461	gctctttttg	ctcaggctgg	agtacagtgg	cgcatctttg	gttcaccgca	acctccgcct
83521	cctgggttca	agcgtttctc	ctgcctcagc	ctccaagta	gctgggatta	taggcattgtg
83581	ccaccatggc	taattttgta	tttttagtag	agacggggtt	tctccatgtt	ggtgaggctg
83641	gtttttaact	cccgaactca	ggtgattgcc	tgcttcgggtc	tcccaaaaag	tgccgggatt
83701	acaggcgtga	gccattgtgc	ccagccaaaa	gtttcttttt	caagagatgg	tggtcttgcc
83761	atgttgtcca	gtatggactt	gaactactca	gctcaagcag	tcctcccacc	tcagcctcct
83821	gaatagctga	gactacaggc	atgcaccact	acacctggct	gcgagatgaa	attttaagag
83881	atgggggtct	tgttctgtcg	cccaggctgg	agtgacgtga	catgatcaag	ccgtgatctc
83941	ctgggctcaa	gcaatcctcc	tacctcagcc	tcttgagtag	ctggaactac	aggaaatgaa
84001	caccatgccc	agctaatttt	gatttttagt	agagatgagg	tcttcttttg	ttgcccaagc
84061	tggtctcaaa	ctccagggct	tcctgagtag	ctgagactac	agggtgtgagc	caccatgccc
84121	agcctcctct	ctttccaat	attgtgttaa	gtaaattgta	ttggtggtaa	tcaacttgat
84181	catttcatatt	ttagataga	gatatacaag	tgagggtata	actgaacgag	aagaggaata
84241	aacaccaccc	tgtgattgat	ggatctttat	agctctcctt	tgataaagaa	gggaaatatc
84301	gtacttacat	tagcatgtta	tagttgctgt	tggtatacag	aagaatatta	aacaatatcc

FIGURE 3-W

84361	atatattggt	tatgaatgca	ttgaattcat	aaacaatggt	atggatattg	actagccaaa
84421	gaggtggata	aatgtagata	caatgatacg	gtgatttggg	attcagtgctc	cattctgctc
84481	tcctagtgtg	ccttcctata	atgcaggggc	tggaagggtga	gaaaataacc	acatttccca
84541	gactcccttt	gcaggtagat	ttccagatgt	gaattggggt	ccactgatca	gacacccatg
84601	tgtgagattt	ggaatgcaga	actgaggaga	gagccatctt	cctcttgctt	gtgttctggg
84661	ggcatgtgtg	gttgaggaga	catttaattt	ccctgcagca	gaattcttgc	agtcagttgt
84721	tgaggcaagt	ggcgtgggtg	atgcaaccct	gattcttcac	ctttctcatt	attgtggggg
84781	agcagcgctt	ctggcaagcc	agacagacct	gcagtgtttt	tctgggagtt	aattctggag
84841	accagtatg	gaaccactc	ctagcccttg	tgacaatatt	gcaagcatcc	agttccctgt
84901	tttacagtcc	ttttaaatgt	ggctagctac	agtagtttgt	gtttcctgca	actaatcact
84961	catacatctg	tatctaagc	atccacctg	ggcatgtac	tatactaaa	attataaggc
85021	aataattaatt	cacaaaacta	cctactcgtt	ttatttaacc	ctcagaagaa	ctgaaaacaa
85081	aagctataacc	aggcttgctc	tagagcgtgg	gcttgggaat	ggaaaggcag	agtcgacctc
85141	ttgaattcca	tcatacagttt	ttctatacca	tggagttact	taccatgtgt	atacataaca
85201	ctgattaaaa	attttaaaaa	aaaggttaaa	acaaaaactg	agccagattc	tgacatttaa
85261	atcagaatta	ttcttagtac	atagacttgc	aaagtcactg	aataattcSt	tgggactaca
85321	gactcttagt	ctttgcttct	agaaatgtat	agtaatttca	acatgtcata	tatatagaga
85381	gagtatatat	gtgtatatat	atacacacac	acacacacta	tatagagtat	atatatacac
85441	tccatataca	gtatatatac	tagtgtgtat	atatatatac	actagagtat	acacactcta
85501	gagtatacac	tctataaagt	atatatatta	tataactat	atattatata	tactatatac
85561	tctacagtat	atatatacac	tatagatgtg	atatatatac	tatacagata	tgtatagagt
85621	atatatactc	tatatataca	ctatatatag	tctatatact	ctagagagta	cagtatatat
85681	atatagtgta	tataactctt	atggagtgtg	tataatttct	ctttctctcc	atatatatat
85741	atatagtaat	cagcttcctc	aggttgaaac	atctagatat	attgaaaaca	ctggatagtc
85801	tgcaaactcc	tcttccttag	agaatgtata	ttatctttag	tattaaagtg	actcttgtaa
85861	gtcctgagaa	acacctcgga	acactgcatt	cacgtgtttg	ctaggcagaa	tagtaccac
85921	cctgcaagac	atcacatcct	aatgcccaga	acctgtgaat	gtgttaggtt	acatagcaag
85981	gggaaattaa	gatggcta	caggtgacct	taaaataggg	agatcatctt	ggattatctg
86041	catgggtcca	atataattag	aaagaacctt	taaagtggaa	gagggaggca	gaagagagcc
86101	agaggaagat	gtgactacag	aagaaggcac	ggatgcagca	ttgctggctt	tgcatagtag
86161	ggaaggaggc	cttcagccaa	ggactgtggg	tggctctaga	atcttttttt	acatctcagt
86221	atgtatgcc	cagttaaagt	ttttgttttt	ttatttttga	gatggagttt	cgctctgtca
86281	tccatgctgg	agtgcattgg	tgagatctcg	actcactgca	acttccgccc	ccgggggtca
86341	agcaattctc	ctgtctcagc	ctgagtaact	gagattacag	gtgcgtgcca	tcatgcccg
86401	ctaatttttt	tatttttagt	agagacgagg	tttcaccata	ttgatcaggc	tggtctcgaa
86461	ctcctgacct	caggtgatcc	gccacctcg	gctcccaaa	gtgctaggat	tacaggtgtg
86521	agccaactgt	cccagcctca	cagttaaagt	ttttaaacaa	tctgatttaa	ctgaataaaa
86581	aatgctcgct	tgtgtggcga	catggttttt	aaaaatgtaa	acagagctgg	gcatggtggc
86641	tcacatctgt	aatctcagca	ctttgggagg	ccaaggcaag	agaactgttg	aaggtcagga
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86761	aattacctgg	gcatggtggc	atatgcctgt	ggttccagct	actcaggagg	ctgaggcagt
86821	aggattgctt	gagcccagga	gtttgaggct	gcactgagcc	gtgatcacac	cactgcattc
86881	cagactaggt	acagagcgag	tctatgtgga	gtgcaatgtc	tctaaaaaaa	aaaaaatacc
86941	caaaatataa	acagggacta	tgaggtatgt	acaggaaatt	aatagctgaa	gaatatttta
87001	ccatgttcaa	aaactaaatt	cttcatgtgg	ctgagagaag	aaagaaaaaa	atggtatggt
87061	tgtgttccat	ttgcaRgtat	tacataaaac	catttttaaat	gaactaaaaa	gcctaggatt
87121	tgggggggaa	aaattatctt	gtgctcgcat	ttgaagggtt	ttctcagaaa	taaactgttt
87181	aaagagacca	cagtactggt	ttaatttttt	ttctgcagga	ccagagggaa	acaggtgggt
87241	taccattttt	ggaaactctg	tcacatgata	tgaatagaaa	ggatagttgg	atgtaacggt
87301	aaagctttct	gaaccagcaa	tccccaacct	ttttggcaac	agggactggt	ttcaagggaag
87361	acagttttcc	acggacctgg	atgggggaat	gtttcgggat	gaaacttcca	cctcaagtca
87421	tcattagtta	gattctcata	aggaacgcac	aacttagatt	cttcgcatgt	gcagttcaca
87481	gtagggttca	ccctcccatg	agaatcgaat	gcgctgctga	cctggcagga	agcagagctc
87541	agggtgtgat	gctcgcttgc	ctgccgctcg	cctcctgctg	tgtggcctgg	ttcctaacag
87601	gccactggatt	ggtactggtc	cacagccag	gggttgggga	cccctgtaac	aaaaggaaaa
87661	caagattctt	aaatctttac	aggaaggagg	aatggaatgg	aaaataaagc	tagttgtaca
87721	ctaaatgatg	ttaacaatcc	ctttatcacc	tttaaaatat	gagcagagag	gaaagaaata
87781	ttaaaaccaa	ccctttttac	tttcttattt	gtagataatg	cctgccttac	gagaatgtta
87841	tttMttttta	aggttccaaa	acaacccat	aaaaacttag	taatgactta	attgttcaca
87901	tattctagt	acatcagtac	attttcagga	agaaatgtgg	aaaggttggc	actagaagtt
87961	gacataagaa	ttagttttag	caggtgcagt	ggcacatgcc	tgtagtccca	gctacacagg
88021	aggctgaggc	aggaggattg	cttgaagcca	ggaattctgg	gctattatag	tgtgctatgc
88081	tgactgggtg	tccacactaa	gttcggcatc	aacatgttga	tctgggagtg	gtggaccacc
88141	aggtttccta	aggagggatg	aacctgccca	ggccagaaat	ggagcaggtc	aaaattcccc

FIGURE 3-X

88201	tcttgggtcag	tagtggggatc	gccccgtgaa	aagccacggc	attctagcct	gggcaacata
88261	gtaagaccct	gtctctttaca	taaaaataaa	aataacaaaa	atgaaaagga	gaattagttt
88321	agatctcttg	ataattttaa	cagtaatcta	aattatagag	tttaggtgga	gttaatctct
88381	gcaagtcctg	aggagctatg	cccaaggtgc	ttggccctac	cagcaatgca	ctcttttgct
88441	tacatgtggt	tcaaatctta	aatccccatca	tttagttttt	tcctatttag	gctgtgggac
88501	ggtgcgttta	ttacaatgat	tgaaacctgt	gccttatttg	gattactggg	tattcaaaac
88561	acatcttttg	gtttagtggc	tggttaattac	agcttactcc	tgtaagattt	aactgtcatt
88621	gattcctaga	gaattttttt	tgagacaagg	cctcgggtgg	tcacccaggc	tggtatggagt
88681	gcagggggcac	aatctcgggt	cactgcaact	tctgcctccc	tggggtcaag	cgatcttccc
88741	acttcagcct	cctgagtagc	tggtaccaca	ggcaccacc	atcatgccca	ggtttatatt
88801	tgtatttttg	gtagagatgg	cgggcggggg	gagccggggg	gtacgggtgtg	cggggcaggg
88861	gggtgggggg	gtggtcctca	cagtgcctcag	gctggtttcg	aactcctgag	ttcaagcagt
88921	ccacccacct	cggcctccca	aagtgcctggg	attacaggta	tcagccacca	tatccagctg
88981	ttttaatttg	atttaacttc	caatcaatat	ttacataaga	ctcatttgca	aaactgcctt
89041	ctttacatta	tcttcttctg	gttttaggaa	acaaaaagta	gccccagttt	atttgtgtcct
89101	agactaaata	acacaagtaa	cactacatta	cactgcatat	ctgatataag	aacgcagtag
89161	acataatttct	agacttttgt	catttatccc	caggcagaaa	atattcataa	tagatttgga
89221	ataagatttt	cttctcaaaa	agcttaaaact	tcaaatagaa	gtgataagtg	agaaagaatg
89281	attggggttg	agaattttca	aaagcctaaa	aacagcctgg	gcatgggtgg	tcacacctgt
89341	aatcccagca	ctttggggagg	cggaggtggg	cagattactt	gaggttggga	gttccagacc
89401	agcctgacca	acatgggtgaa	atcctgtctc	tactaaaaac	ataggagtta	gcagggcggtg
89461	gtggcatgcg	cttgtaatcc	cagctgcttg	ggaggctgag	gcaggagaat	cgcttgaacc
89521	tgggaggcgg	aagttgcaat	gagccgagat	agcgccattg	cactctagcc	tgggcaagaa
89581	cagggcgagg	attcatctca	aaacaaaaca	aaacaaaaca	aaaaaacaaa	aacagaaagc
89641	ctaaaaacag	gttccaagaa	gtttagcaaa	agaggtaatt	tgttccaata	tacagcacag
89701	tcatacacag	cactttgcaa	cttaaccaag	gaaaacatta	aaagtggcaa	gacaatacta
89761	ccctctaggg	gccaaatttt	tatgttcaca	actcagcaaa	ggatcaatga	aaggatgaac
89821	taaacagtta	ataacaggcc	agttattcaa	gattgaacaa	tcctttctct	tttcacgttc
89881	tcttggggta	agcactacat	gattgactac	agaagttggg	ataagacacc	tgaccagtac
89941	atttttggtta	cttatgaaaa	taattctgat	acaaggggtg	agagagaaaa	atttgaaatg
90001	aacttcatga	aacgtagaat	ttatatatag	atttttattt	atatttttat	tacagactta
90061	ctatttcta	tttttcccca	tttgggaaaa	aagttcagtg	acagatattc	ccagtcacct
90121	cagacatatg	aggtgcctgt	gtgttttaac	tacttggtga	gaaattatta	cagaattcat
90181	aaaacaggaa	atgaacatta	taaaccagtt	actaactgta	gaatattttg	gtttcctctg
90241	Yccctgccc	tgctctaacc	tctacttcac	tggttttctg	catttttctc	atccttttat
90301	ccagattaac	ctgttcattt	attgacttct	gtcaagttct	agaaaatgag	atcaaagact
90361	gatagctgga	tgttctcccg	tcttaaaatg	ttagggaaac		

FIGURE 4-A

>11:10442001-10539300

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1      tgtgcttgta tcattgaccc tttatgatta gtcaattctc tttatttatt ttttttgaga
61     ccagggtctca ctctgtcacc caggctggag catagtgggtg tgatcatggc tcactgcagt
121    ctcaacctcc   tgggctcaag cRatctccct acctcagtcct cccaagtagc tgggactata
181    gttgtgtgcc  accatgccag ggtaattttt ttatttttat tttttgtaga gatgggtctc
241    actatgttgc  ccaggctggg ctttaactac tgggttcaag tgatcatcct acctcagcct
301    cccaaagtgc   tgggattaca ggtgtgagcc actgtaccca gcctctttat tctttaaaat
361    aagtttgтта  aactgaatca attaggttct gtgcttccta cttcttacct cagaatagtc
421    tatgattatt  gctttctaca tgttctagtt ttatttataa tgtggggggt taaaattttt
481    acttcttaga  attttgggag tgccttgctg atgaccacat gtactgctta aaggagggtg
541    gatggggaga  aggagaaata gatcagtaac tagaaaagga gaaacattta gaaacaaagt
601    atttgatggg  ttctgaactt tttatgcaac ttgaccacaa attcttaagt tcatctggaa
661    gaaaaaatgc  agaagtctag ccaagaacat ttKgaaaaag aacaatagtg aagaattttc
721    cctattagat  Rtcaaaatat accataaagc tatagtgggt aaaacattgt gggattggca
781    caagcataga  caaataattc agtggaaactg aacagagact ccagaaacag attcatctac
841    atgtagaagt  ttagtatatg atgaatatgg tatttcacMc tgatcttag  ccaaaagcct
901    gagaagtaat  gaatacggta tttgaaatga cagggcacaa agaggggaat aagggtgaat
961    attataatag  atgatgttct tagttatcta tctgggaaat gattggatta gaattcctat
1021   ctcacacata  tacaatatga aataattttt caaatggatt acggaaggaa tactaaagaa
1081   caaMactaaa  atgttttaga acaaaacatt tgagagcagt ttttcaatct tggagtggga
1141   aagaccattc  tgagattcta aaattgagaa gtcttaataa gaaggggctg gtgatttga
1201   ctacataaac  tcgaaaactt ttttgcaagt taagacacca taaaaacatt aagaacacaa
1261   aagaaagttt  ttctgcatct ctgccccctc tctctgggtg ctatctttct aagtctggcc
1321   tctctcgagt  ccctgtcagc ttgtctgagt ctcggtcctc cccggtgagt ctcggcctct
1381   cccactctga  gtcttggcac ctccactctc ctgagtctcg gctcctccca ctctgagtc
1441   tggctcctcc  ctctctgggt ctcagctcct ccccttttga gtctcggtc gctctctct
1501   gagtctcagc  tcctctctct cagagactct tcctctttcc ctgtcttggc tccttccttc
1561   ctgagtttca  gctcctagct ctgagtcctc gatcctccct ctttgggttt ctcccagtc
1621   ttgtctccta  ccttttcact caggttgtct cacaatctgt ttctcaaga aaagtagacg
1681   agtccctggac  agacaaatga tgagtttcat tcatagactg aggaagcaat aagggaaaag
1741   gaaaaaaaaa  aagaaaaacag catgggaaag atttgcaagt tatatagaac aaaaatcaa
1801   gattcataag  gaatatatag taagtataaa tccatcaaaa aggtacaact ggccaggcgc
1861   ggtggctcac  ácctgtaatt ccagtacttt gggggggccg ggtggatgga tcaacttgag
1921   gtcaggagtt  ccaaacaccag ctggccaaca tggtgaaacc ccatctctac taaaaataca
1981   aaaattagcc  gggcggtggg gtacacgcct gtgatcccag ctattcagga ggctgaaggca
2041   ggagcatcac  ttgaacctgg gaggcagagg ttgcagtaag ccaagatcac accacttcac
2101   ttcagcctgg  gtgacagagt gagactccgt ctcaaaaaa aaaacaaaaa aaaaggcgca
2161   actaccatga  gaaaattggg taaaggatat tcacaggcaa tcaaaagaca ctgaaatgtg
2221   tgcagcttag  taagtgtctg gatgcaccSg gctccctcct tcagagccgg gtactccttc
2281   tccaattgtg  ggagtctcag tagctctggt ttactccgtg agtctctctc taggagtcct
2341   catttatcca  gaacaaaagt atatcttagc tgggcgtggt ggctcacgcc ttagtatcca
2401   cactttgggg  aggctgaggc gggcggtatca cttgaggtca ggagttcaag accagcctgg
2461   ccaacacggt  gaaaccccg  ctctactaaa aatacaaaaa ttagctgagc atggtggcRc
2521   atgctctgag  tcccagctac ttgggaggct gaggcaggag aatcacatga acctgggagg
2581   tgtagttgca  gtgagccaag attgcgccac tgcactccag cctcggcaac agagagagac
2641   tctgtctcaa  aaaaaaaaaa aaaaaaagaa aggatatcct gccattccta tgagagaagt
2701   cacagagaag  tctgaaatac acaaaaaagt ctttataatt aagtgggtctt cacttttttt
2761   ttttttttaa  atacacagaa ttttgctctt attgccagg ctggagtgca atgacacgat
2821   ctcggctcat  cgccacctct gtctcccggg ttcaagtgat tctcctgcct cagcctcctg
2881   agtagctggg  attacaggca tgcgccacca tgcccagcta gttttgtatt ttagtagag
2941   acgggggttc  tccatgttag tcaggctggg ttcgaaactc tgacctcagg ttatctgcct
3001   gcctcagcct  cccaacacat ttttataatt ataattgaaa atagtcttca cagtttcatt
3061   ataataatca  tgtcaatttc ctaagttttt aaaattttaa ttaaattaaa accttgaatt
3121   tccttttagtt tttaaaattt aaggacttaa ttctcttcca cataaaaaag tggcccaatt
3181   tcaaggactt  catgtctaaa acaccaaaag caatggcaac aaaagccaaa atagacaaat
3241   gggatctaatt taaactaaag agcttctgca cagcaaaaaga aactaccatc agagtgaaca
3301   ggcaacctac  agaattgggag aaaatatatt caacctactc atctgacaaa gggctaatat
3361   ccagaatcta  caatgaactc caacaaattt acaagaaaaa aacaaacaat cccatcaaaa
3421   agtggggcaa  ggacatgaac agacacttct caaaagaaga catttatgca gccaaaaaac
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3541   ataccatctc  acaccagtta gaatgggtgat cattaaaaag tcaggaaaca acaggtgctg
3601   gggaggatgt  ggagaaatag gaacactttt acactgttgg tgggactgta aactagttca
3661   agcattgtgg  aaatcagtgt ggcgattcct cagggatcta gaactagaaa taccatttga

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FIGURE 4-B

3721	cccagccatc	ccattactgg	gtatataccc	aaaggattat	aatcatgct	cctataaaga
3781	cacatgcaca	catatgttta	tagcggcact	attcacaata	gcaaaggctt	ggagcctacc
3841	caaagtgtcca	tcaatgatag	actggattaa	gaaaatgtgt	cacatataca	ccatggaata
3901	ctatgcagcc	ataaaaaagg	atgagttcat	gtccttttga	gggacatgga	tgaagctgga
3961	aaccatcatt	ctcagcaaac	tattacaagg	acaaaaaacc	aaacaccaca	tgttctcact
4021	cataggtggg	aattgaacaa	tgagaacaca	tggaacacag	aaggggaaca	tcacacaccg
4081	gggcctgtgg	tggggtccgg	gggatgggag	agggatagca	ttaggagata	tacctaattgc
4141	taaagtacga	gttaatgggt	gcagcatacc	agcatggcac	atgtatacat	atgtaacaaa
4201	cctgcaggtc	gtgcacatgt	actctaaaac	ttaaactata	ataataataa	aatttgaaaa
4261	aaaaccaatt	tgcattttat	tagatgacat	gttattgtct	aaaccaaacc	ttttttggta
4321	tttgtttgct	tttacgtcag	gctttgaagt	tgctaagaaa	tttgtctctg	cctccctact
4381	ctcctcgaag	gagatgtgac	ctgttccctg	gattacccta	aggatccacc	acccttcagt
4441	aaccgagggg	gccaagggcc	Rggaaagcgg	gcagcaactg	aattcctctc	tgggatctga
4501	ctgtcctcag	cagagagaaa	caccacacgg	actggagcag	agccacagtt	ctgtgagctg
4561	tgagttcgtc	agagagatgt	ccctgacaac	aacagctggg	tttgtgattg	tgattYccct
4621	ggcagctctg	tgaatccatg	tgctcatctt	tcctgacatg	agcctctccc	ccttgacaaa
4681	tgcaatgggg	tttttactat	ccacctggag	cagttgaggt	ccagagaggc	caaggaaata
4741	agcgagaagg	acaacagcag	gattcaaaag	caaagtccac	atagcgtaca	tgcttgaatg
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4861	tcccaattat	gcccgcgttg	aagtatcttg	gaattcttta	actattcttg	tacacagctc
4921	taacacctct	gattgtcagg	gattcatgta	tacctgtgga	gtctaaaggg	tgagcaaaag
4981	cagttaattt	tctcagcaaa	tcattccactg	gtccatatag	cagcagcctt	agataggcaa
5041	atcgggtgttc	cctttgccct	ctttgcctcc	cttatgaccc	cgtttctttg	cactccctgg
5101	cctcccctYg	gattcctact	ctgttataga	gtgatagcat	cacatcctga	ggtcttcagg
5161	aattaacgtc	tttcaaaata	gtcagaggag	catcataaaa	caagtctttc	tcaatcccag
5221	cactttggga	ggctaaggag	ggaggatcgc	ttgagcccag	gagttcaagS	ctagtctggg
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5581	acaaaccttc	actacaagaa	tgggtgggtt	atatgtttgg	aagaagtggg	caagggaaac
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6061	cacggcaatt	gggaaaagct	tgaagtctct	tctagaagct	gtaaagtctc	gggccagagg
6121	tagggacagg	gcgaggggag	ccagcagaga	gagagagctg	gcctgcagtg	gggccaacaa
6181	aaaatgtggc	cagccgctgg	ccaggaaggg	gagtgagaag	cctcaaatag	agctttgaca
6241	ttgtttttct	ttcttctgga	gtgctgccat	gtgccgccac	acagagcatc	tcacgggtag
6301	atgcgtatta	ttgcaatgtg	tttatctagg	aaaccagagc	ccagctccag	catctggttt
6361	tcagcacaa	cctgagtga	gtccaatttt	ccagttgggt	taatgaaaat	aaaacttggg
6421	aagtgtgtgg	ctggctgcat	caggggtctga	attctgggct	catgcagggc	catggattgc
6481	agagccggaa	gggcttgggc	aggtcatgga	tttattgtgg	acaaccttgc	atgggSaggg
6541	agttgctgcc	tggcctggct	ctgaggaaca	cgcctcacag	aggaatgatg	tctttggatt
6601	ttctctgtct	taacctgaca	ccagttgacg	gagcacctac	tttggctgaa	acactgggct
6661	gcgttgttgg	gcaggggtga	agcacagggt	tggaccagtg	cctgagccca	gcttgctcga
6721	gcacagtga	gccaaggaga	gatgcccga	cacacaggca	tcacacaggt	ggactgctga
6781	gtgggacctt	gatagcttgt	cagggtccac	cactttgaag	ctgtctggag	acctgggatc
6841	cgagagagac	tcgtttttta	aagccagctt	aaaaaaaggc	gtagccaggt	ttcagggaga
6901	cctggaaacc	agaactaaaa	gtccactggc	tctctttgca	tctccgtctg	caagtcttga
6961	gtattttgtt	catgtttctc	tctccttgca	gaacaggttt	ctctgatctt	cagacagtg
7021	ggcagaaaac	gcaattgccc	tacagctcct	gagtcacat	gagcctcttt	atctctctct
7081	cttcttcccc	ccactccaag	tctcttgggg	taaagggtgt	agttagctct	ggcaggtgac
7141	aggctcacta	ttggtaaaat	cagaggtggc	taggggggtca	gagtcacatg	tatgaatatg
7201	gctaagagga	gccaccctg	aggtcccatg	cctgggggtt	cttgtttata	gaaagtgttt
7261	agtagtgaac	tgcaagtca	agacagctgc	ttctttgatg	tgactccacc	cttgtgaggg
7321	acagaggaca	gggaaatggg	ggccagccat	tagtgtgaga	gtaaggctgg	accagggtct
7381	ctgactcccc	agcccagtg	tcttttcaca	ctctgttccg	ctggctcctga	tgtggagcca
7441	acagttttga	aatggactgt	gcctatgtgg	tttccccctg	ggagcagctg	cagaacgagc
7501	agtgttgatt	aaataggatt	ttgttggcag	gccttggaac	gagtggggag	ccaaacacca

FIGURE 4-C

7561	gtgggtgtggc	tagctgcaac	ccttgggggag	gttatcagaa	ggcgtgtgtc	atagatcctg
7621	gacagggtga	cctctcacag	ggtgtcagga	tcctggggga	aggatgggcc	cttaccaagg
7681	atggtcttcc	ttaccccaag	ggtgtctcct	agacagaatg	tagggaaggc	ccaggcaggg
7741	cagggaggaa	gagcctctct	ctcctgagtc	tcacctcaca	ctaaggaatc	acactgagtc
7801	ataaaatggt	gttaggggaa	gaggcctttc	tctgaagctg	gagaggaggg	tccccaaggc
7861	aggccagaga	gccagttcct	aaaggactat	aaggggtagg	acatttgggtg	tctccttggt
7921	catccgtaat	cctgctgaac	aatgacgctt	tccttcattc	caccatcttg	gtgtgggaag
7981	ggatacttat	gtttttcaag	atgctgtcag	ttttgtgtgc	accttgctgt	ccctgcagct
8041	gtctctccag	cacctcatgc	ctggagtcac	tgatgttccc	acttccaggc	ctgagcccat
8101	ccggggagcct	gagccaatac	tgaaaacagc	cccaatccca	ttccatgggg	cttggagtc
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8221	actggggctct	cgcttgggtc	tttcttccta	gttcacttgg	ttatatattcc	ttgaaccctt
8281	cctgtgggtc	tctaccacag	ttttaagcct	tcctggggct	ctatacctgc	ttataaaactt
8341	tggcccatte	ctccagccac	tgatgaaggg	aaccctgggc	atggtgatga	accttcacct
8401	ggcttcatgt	tacctcccat	ctctatcatc	tctgccaaact	ggcctggcta	tctttaatag
8461	tgatgtcaac	tagggatgac	ctctgaacag	tttaccagcc	cattttgtag	ctgggctgga
8521	acctgtggct	cagggttagt	gaggaggctt	tctccatttt	ctttgttctt	ctccttggcc
8581	ctacattctt	tctccatgag	cccattctaa	tgacacttgg	catgggctat	gcttctctgtc
8641	ccactgagcc	atgccagga	gtcttctctc	ctttccattt	gtctcccttc	tgttgggtgc
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8821	atgggtcatc	ccgcatcagc	tcatacaacc	atgtgattaa	cctgagtcaa	gccaactctg
8881	gccaaagtga	agaaggagaa	agtcagacta	tatatattct	ttattttttg	gttttaattc
8941	tcctgtcat	gatgcaggca	ggtattacct	gagcacatgc	aagcctgact	tatcctaatac
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9061	ctagtgcagg	gtctgttctg	tccagtcacc	acccattcct	cagacatggt	ttctattgccc
9121	ttttgcccac	agctgaaatt	ccccatcca	tccatccatc	tatccatcca	cccatccatc
9181	cacccatcca	gtcatcta	aaatgtatct	gccaagtcct	gtgtaaaaca	ctcaggcatg
9241	gtttcttccct	gcaaggagcc	ttgtgtctgc	ctcaagccct	gcctctgtct	ggcaggacct
9301	ggactgtctc	cagctggact	tgctaatatg	tctccagtct	aggctcattc	ttatggggat
9361	agcagacaat	ggcagggaga	ctggcaataa	acatgtaaac	atataattaa	ttgtcaactg
9421	ctaattggct	taatgttata	taagaataaa	gactgcacaa	gaaaatgaca	acaaattatg
9481	agggcaccta	cttaggaagg	gtattaggag	taggctttct	gaggaagtga	cctttaagct
9541	aagatctgaa	ggatgtcata	ggggaaaaaa	atgtgcagag	aacagaaaac	aaaaagtgtc
9601	aaggccctga	ggtggagaag	gaaacatgtt	ccagaactgg	aaagaagctt	gatgtggctg
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9721	tcattgcacag	ctttttggcc	ttggttagga	agttataaaa	ggaaaagagct	aaagcagaaa
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10081	aaagacacag	agacaaagta	tagagaaaga	aataagggga	cccgggggaa	cagcggttcag
10141	catatggagg	atcccgccag	cctctgagtt	cccttagtat	ttattcatca	tttgtgggtg
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10261	caaacacgtg	aacaaaggct	tttgcataat	agactatgta	aaggattaag	tgctgtgctt
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10561	gggtgtcggtg	ctgggggagc	gtcaggtcct	tcctttccca	cgaggccata	tttcagacta
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10681	tccgcagttt	ttgtgtccct	gggtacttga	gattagggag	tgggtgatgac	tcttaaggag
10741	catgctgcct	tcaagcatct	gtttaacaaa	gcacatcttg	caccgccctt	aatccattta
10801	actctgagtt	gacacagcac	atgtttcaga	gagcacaggg	ttgggggtaa	ggttatagat
10861	taacagaatc	tcaaggcaga	agaatttttc	ttagtacata	acaaaatgga	gtctctatg
10921	tctacttctt	tctacacaga	cacagtaaca	atctgatctc	tcttgctttt	ccccacaaat
10981	agtgggtgtc	ttaaactgaga	tatgaagatc	acaagcagag	aagcttccga	gttcaggagg
11041	gaaatccaga	gttcggattt	gagcatgtta	agtttgagat	ctccgttaga	catccacgaa
11101	ggtcaggtag	gcacttgaat	aaatgagact	ggaactcaga	agaggcttgg	gctggagcga
11161	aagctgaatt	gtcagcatat	ggagaataag	taaggtagga	gggacaccct	cttatctgtt
11221	tccctgggag	ccttgcaacta	aagctaagg	ctttcaaaca	gacttgagta	aaggcatcag
11281	gggtggggga	cctggaatac	ccttccaata	tgagggtctc	tgggttctctg	cagggccagg
11341	actgtgcata	atagtgattc	aactggggca	ggagaacttt	cttggctcca	ctggggctgg

FIGURE 4-D

11401	cctttcttag	gattgtttta	aattccattg	attattcttt	gctttgctct	ggaaacaact
11461	actctttatg	taagccctct	ctgaaagtga	caaatcatgg	aaaaattctt	ttggatttga
11521	atgcagtgaa	ggcagagagg	gcgcatcttg	ctttgtggtg	tggaggccat	gctgaggatg
11581	tgccgcgggc	cagagagctg	gaaagtgggt	tcaggcagcc	aggctgagtc	aacccttcac
11641	ccctgagaaa	cccacgcaga	gcatcacgtg	atgtggagga	acaggggcac	tgagtcagtc
11701	taatattcaa	ggcaggaaag	gtagaatttg	aaagggagga	gaaaatgtca	ttttggtgtg
11761	gcaggagaac	acgacatgct	tctctggctg	ccaggaagaa	tatttcctgc	ctagggctct
11821	ggattctcta	tggctgagct	ctctgggata	gagaaggagg	gagatgttca	ttcccatattg
11881	gagatgtggg	ctgttttctt	ggggcatctg	ggctgggtact	tgtgaaaagg	ataggacttc
11941	gataggtaca	gttttccctt	tacctgctga	acccttctgc	atgtcaaaaa	aataaaataa
12001	aataaaataa	aaaagttccc	aacttgacct	cagggacctc	cttcccccta	ccatggagat
12061	tctgtctgcc	actcttcttg	gctttagagg	acacacttga	ggaagcagag	tcttttctga
12121	tgagctcctt	gtccctgctt	accagatgta	gtgattcctg	agctccttca	ggggtgaagt
12181	gtctcagcag	ttccttcctg	aatcgtgcct	ctcctctcct	ctggctttct	ctctcagctc
12241	tctcttcctt	tgtcatatatt	ttatttcctc	actttccctc	ccacagtggg	atgaagcacc
12301	gtattgagta	gaggctgttg	gtgttgggca	gagctgtaga	atgctgatgg	aggaacagga
12361	agtaagtgag	gaaggggcaa	gggtgcttct	aagtgcctcg	tgcactgacc	cagaagggtcc
12421	tttttgagc	cacagggtcg	tggctctgag	catgaaagag	gagggctggg	gtgaggatca
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12661	ggtcctcctc	cctccatcac	cttctcccca	cccctaggtg	tgtcacccctg	aagctaaaaac
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12841	agtaaaacca	cccctgcccc	tttcttttct	ctctacctct	tatgagtttt	atggagtttag
12901	tattcctccc	ctggacaaaa	actccaaagg	ccttccgact	tcctcagtaa	gatccaaagt
12961	tcttctcatg	gacttaagac	cctcatcgac	ttggcctccc	accccttctc	ctgagctctc
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13081	atgccacgcg	gcttcacatc	tgtctggccc	tctgttggga	cgctcttctt	gcacagtgcc
13141	gcctggctca	ctccctcact	ccttctaggg	ctccgttcag	aggctccctt	aacaaagagg
13201	ctttctctac	acaccccaca	tcaattagac	actttcttca	ctcacactcc	cactcgcctt
13261	accatgatta	atttttcttc	gtagctcttt	atcatcacca	cataacatat	tctgtatcaa
13321	tctctttact	gtctatctct	ctctgcctga	atgtcactgt	tttgtttgct	gctgcattcc
13381	cgatgcctag	aagaatgtct	ggcacatgca	ggctttcaat	aaatatttgt	tgagtgggtg
13441	aatgaatgac	tacatctgac	gagaagagag	gctttgggtca	ctcttttagca	ttgatatgta
13501	atctgttgag	tgcgtgtttg	ctgcatttat	caacattctt	ttaaaactag	attcattttc
13561	tgatagtatt	atctcatcag	tcaggggacc	gcctgagcat	taggccacaa	gccaggctat
13621	tcctggaagg	attgcaggac	aggcttgacg	gatgatgcac	aggctgggtac	cctggggctc
13681	ttcatgtttg	agaagagagc	catggcactt	ctgggatgtt	cacagtgacc	tactcttat
13741	ttgatttttc	ctggaagaca	cctcaggcta	cttcttctc	tgaggatgaa	gtagaggaaa
13801	ggagtgtatt	attagtcagg	gctctctaga	gaaacagaac	cagtaagata	tctaccctac
13861	cacccatattg	gatataatc	ctatcgagta	tatagataca	cacatacata	caggagggaag
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13981	agggaactgg	ctcacatgat	tgtggggttg	gctagtctga	aattttgtagg	gaaagctggc
14041	aggctggaaa	ctcaggaaat	tcctatattg	cagtcttaag	gctgaattcc	ttctgtttca
14101	agaactctca	gtctttgctc	ttaaggcctt	aaactgatga	gctaaggccc	acggcagtat
14161	ggagtgtaat	ctgctttact	caaagtcctac	tgattcaaat	gttaattaca	tgccaaaaatc
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14341	cagtagctgc	agtctcttag	aattaggagg	agctgccaag	gtgccttctc	tatttcagtc
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14461	gactggggcg	gggtgccccaa	gccccctatt	ctgccttggt	ctggccctgc	cctggcctga
14521	tccttaccct	aaacccatat	ccccggggcc	ctgagtcata	cctagttttt	cccttttgct
14581	acttcatttta	ttctgagctc	caggactaaa	aagagagaaa	tcagtccctt	ttcacatgga
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14701	ccgtgataaa	tactatgaag	aaaataagac	aggacaatgg	gattggtaat	gatggggtct
14761	cacctttctg	aggaggtgcc	atttgaactg	agaatgaggg	atgctgtggg	atcagctatg
14821	cacagatctg	gggagcaggg	gggtcagcaa	gcgcaaaggc	cctgagcatg	caacttcttg
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14941	gaggtcagag	agaaagagag	gggccagggtc	gtgggggtct	tgcagggtcat	ggttaggatc
15001	ctgggacttg	attctaattt	caaggaaagt	gttggaagt	ctgtagtggt	agaatgctat
15061	aatctcacat	tttataaaag	gtcactctgg	ctgccatgta	gtgaatggac	cacacaggga
15121	aagagtggaa	gcaggatgcc	ttgttgagga	tgtcacccaa	gccagagatg	atggtggctt
15181	ggagcgggtg	gacaacagcg	cagatgaaga	aaatatacat	ttggtgcatt	tttgagggtc

FIGURE 4-E

15241	aaaatgacag	gcctttttga	tgaattggat	gtggcagatg	aaggaaagag	gaatgaagga
15301	agattcctgg	gttttttatct	aagcaatgtg	ttgaatggtg	ctttgggttaa	ctgagatggg
15361	agaagcaaca	gctggtggag	ggtgaagggtg	ggcaatcggg	tttgaatgc	ctcttaggta
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15541	ttatcatcaa	gctcaccgtt	ggatggtaac	ccccatgagct	atacctgagg	ggagttctac
15601	ctgagcttct	cagctctcct	tgtatcttga	gccccatggct	cctctctctc	tgaggcagtt
15661	cctgccttct	gttgaattca	gctcagttcc	acaagttctt	atggacacca	actcagtttc
15721	agatccatgc	tggatgttgg	tagcacaagg	accagcaagg	catggctagg	ccagcttcca
15781	cagttcctgc	ttgctctctg	gagcaggact	tttaaaacct	gggttcatgg	atggactgtg
15841	tattagtccg	ttctcatgcc	actataaggg	cataccgcag	actgggtcat	ttataaagga
15901	aagaggttta	attgactcat	agttctgcag	ggctggggag	gccccagga	acttacagtt
15961	gtggcagaaa	gggaagcaaa	cacatccttc	tcttcacgtg	gcagtaacaa	ggagaagggc
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16081	atcacaagaa	cagcatgggg	gaactgcccc	catgattcaR	ttatctccac	ctggtccctc
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16201	agccaaacca	tatcagattg	caagggaag	atctgtaact	tcccagacat	gtggtataaa
16261	atttgtgttt	aggtacatta	atgtgtgata	aaatttgtgc	ttaggtacat	tatggtattc
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16381	caaaatgcc	agactgctat	tctgcgggtg	aagcgcccaa	tgcttaatcc	ctctccctcc
16441	agtcttgagt	catcaccagc	atccagcctt	tctcaacctt	gcagctgctt	caggatgtga
16501	cagatgtgat	aaaatgcagg	cgaggtcggy	ataggccaag	aagcaggaag	gggtctggatc
16561	ttaggggtgtg	tgagggacag	gtacagaatg	ccccctggaga	gagtgtgggg	ggcttcaaat
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16681	catgggtgac	atggacaact	ttgtgtatca	gatagtcctc	tctcatagtt	gggtggagcg
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17161	gaggagaact	gggagaggtc	agaggctgag	ggcgtgcaga	gtctcaaagg	taggctaagc
17221	aaaagcaggg	aaatcagggg	aaggatggag	gctgagatca	ctaaggggca	ttccacagga
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17341	agaacactcc	atcctccttc	ccacacgtgc	ttggtgtcac	gccccaggct	ctcgtccttc
17401	tgtgacctcg	agagcagagc	cagtcacttc	ctcctccctg	ctctcacagc	cctctgggctt
17461	gcctcctcaa	agcactttgc	aggctggatt	gctgggtgact	gtgtgtgctt	gctacccccca
17521	cccccaacca	ggagactgga	cttcctgggg	gacaggcttg	tctgtcatcc	atgggtcccc
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17701	ttgccaat	attataaagg	atattacaaa	gaatacagat	gaacaacagc	cagatgtgatg
17761	gaatagatac	ctaaggcaag	agatgtggga	agaggcgagg	ggctccatgc	cctctctgga
17821	tgaccacccc	tccaggagcc	ttcaggtgtt	cagctaccag	gaagctccct	caaaccacac
17881	cttttgtggt	tttaaaaagg	atgggttagtt	gccttgaagt	agggtggcgat	gccttaactg
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18061	tatgtatgca	taatgtacat	aggcaggaac	ttgctgtgca	actatcagta	gtttctttct
18121	atccgtagcc	gaagcagtta	ctatggccga	ggaaactgac	atatccatta	tctcacatag
18181	ttacctttct	ttcttttttt	ggtgagagta	cctaaaatct	acgctcttag	caaatttcca
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18301	atcctataca	actacatctt	tcaacccttt	gacctacatc	tgtccagtc	ctcccatcaa
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18541	ttgtgtgtgt	ttacatttat	atataaatat	atgtaacaca	catatatatg	tttatgtata
18601	cacaaagaaa	tatatataca	cacatatatt	tatacatata	catcatgatt	tctttatcca
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18841	ccataactgtt	ttccataatg	gttgtaccac	ttacattctt	caccaacatt	atacaggggt
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18961	cctaacagggt	atgaggtgat	cactcattgt	ggtttttgatt	tgcattgtgg	ttttgattta
19021	tcttttattg	tacctgtttg	ccactagtgt	atctttctct	acctttgttt	tccctcttct

FIGURE 4-F

19081	ttcttttctg	cctttttaac	ctcacctctc	acttctcctg	aaaagtcctt	tccagtcctt
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19201	gggccaagc	agccccagac	acccactgtg	gcctgatctt	gccctgtgga	cccctctccg
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19321	cctgcctcta	ccataggaga	tctgggactg	tctttggaaa	cctcaataat	gcagggtgaga
19381	aaataggcac	agagagggga	aagaagctgc	tgatagtgtc	aagttcctgg	gatgtcaggc
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20521	tactagagcc	ctaggatggg	cacaggtagg	cctggagttt	ggtcctgttt	ctgccacttg
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22321	gggggatttg	ttccaggacc	tcccacagat	acccaaatct	gaggatgctc	aagtccctgg
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22561	ccctcataaa	atcatagtgc	aatgcacat	ttacatgttg	tgatgataaa	caaccattca
22621	cattgtttct	ggtgtaaaca	aacctactgc	actgccagtt	gcacaaaagt	atagcacata
22681	caattatgtg	cagtgcataa	tacttgacaa	gataataaat	gactatgtta	ctggtttgtg
22741	tgtttactat	attatactat	actttttatc	attagagtgt	actccttcta	cttataaaaa
22801	attgttaact	gtaaaatagc	ctcaggaggt	cctccaggag	gtattccaga	agaggacact
22861	gttaggatag	gagatgacag	ctccatgcac	gttactgccc	ctgaagatct	tccagtgggg

FIGURE 4-G

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23041	agtaaaaaaa	aagtttataa	aaaatagatg	aaagctcata	gaataggata	taaagaattt
23101	ttgtacagct	atactatgtg	tttcaagcta	aatgttatta	caaaagagtc	acaatttgca
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23641	tccccattgt	taatggatgc	ttaactgtac	tgataatacc	taataaaaatg	taaatactat
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FIGURE 4-H

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29881	cctaagtccc	ctccagagag	ggctgtcaac	agggctggct	gctgagctgg	ggaagggtgg
29941	aggggtctcac	catcccatat	gtagatttca	cttaatttcc	ctgctttcag	gacagtgtt
30001	cacctttaac	ttcctctttg	ccaggtatcg	cttatccttg	agtgtctctg	gatcagttt
30061	tctggagatg	aaattatcta	tggcctacca	ggatagtttc	caggcagtcg	agagttggga
30121	ggaggactgg	ggtagaaaca	cttcttata	aagacttctg	ccctatccac	ctgttttcag
30181	ccccattttt	caccctggct	ccaatgcatg	aggctttgtg	gggtcggtgg	tcggaatttg
30241	cttgcttctt	gctaacattt	ctctttgcat	tcactttggt	ttcagctctc	tctgctttgc
30301	taagctgggt	atcatccagc	ttcttacctc	ttccaataat	tattgacttc	tcttgtcctc
30361	tgctcatgtt	atgccatttc	ctttgtcttc	gtgggctcac	tctttttctt	ttttaacaaa
30421	tttccattac	ttttacttta	gtgggtgtca	ggatggaaatg	gacataccac	atgtgtttac
30481	acccccatgt	ttcattagaa	atcctagtca	ctgttcaaca	cattctctca	gctccatcag
30541	tcctttgaag	ctgttcttgt	caaggacacc	accatttcca	tgttgccaaa	tctcttggtc

FIGURE 4-I

30601	actttgctgt	ctgtcttcat	aatactcagt	ctctcagcag	cattccacac	acttgaccac
30661	tcttgaaaaa	cttgcttctt	ttgaccttca	tgataaacaca	tgcttctgat	ttgtctgcta
30721	catccactga	gcatgcttca	ccctctcttg	ctatatcttc	ctcttctggg	aattcccatg
30781	gactctttct	ttggtcctct	tcttttctct	atctatacac	tttccctagc	tgatctcatc
30841	tagtcctagg	gctttaaata	ctttctatat	accaatgact	ctcacatatt	tatctgcagc
30901	cttgatagct	tccttgaatc	tcaactatct	acttctccca	gacatctcca	tttggatgcc
30961	taatagcatc	ttaaacttaa	ctgggcaaac	ctgaactctt	gattttcacc	gccaaaccag
31021	ttccttctta	gtatttccca	tcaaagtcac	gctcatacac	tgagtggctg	aaggccaaaa
31081	ctcaggatca	tgcttcaact	tgctcttctt	ttctcctttc	ccatttacta	tgtagcaag
31141	ccctgtcggt	gcctccatga	tatatgatta	gtgagtctgc	ttctccattg	ccactgctga
31201	ctgactgctc	ctgtcaaggc	caccatcatg	tgttgccctg	gctattccag	ttgactcctg
31261	agtgggtttc	tggttccac	tatggccctc	caaggatcca	ccttcgcgat	agtagccaaa
31321	tgatttccatt	aaacatgtct	atcagggttat	gccactcctt	tgtttaaaat	ttccagtgga
31381	tttctgtgtg	ccttaaaata	aatttcacac	ttcttaccaa	ggcctctgct	cctctgcaaa
31441	ctctttctct	tctttttaga	gatgaggtct	tactattgcc	caggggtggg	tgtagcagct
31501	tcacatggtt	tcactgcagc	ctcaaactcc	caggccctgt	ctcagcctcc	caagtaacta
31561	agtcaacagg	cataccacc	ctcacctggc	taattttttt	taaaaaagag	atttggtctt
31621	actatggtgc	ccaggctggg	cttgaactcc	tggtctccca	aagtgtctgg	attatgggtg
31681	tgagccactg	tgccagcctt	aaactccttt	tttttttttt	tttacacagg	cttaatccac
31741	tatggccctt	ctggtcatct	cccattccca	ccccaggacc	tttatacttg	ttcttcttct
31801	tgcccaagaa	ggaagactgc	agccacaatc	ttgatgctta	ctgcagccac	aactcctcat
31861	cattcagggt	caagctcata	cattctcaga	gaggctctct	tagtctattt	tatctaaagt
31921	aggaaccctt	tctcccaaat	catttgctag	aacagtgggt	ccccaccttt	tcggcaccag
31981	ggactgggtt	catggaagac	aatttttcca	ggaatgggtt	tggtgatgaa	ctgttccacc
32041	tcagatcatc	agggattaga	ttctcataag	gagcgtacaa	cctagattct	tccatgtgca
32101	gttcacaata	gggttcgcgc	tcctatgagt	atctaattgc	accactgac	tgacaggagg
32161	tggagctctg	gtgctaagt	gagcgtagag	gagaggctgt	aaatacacag	agccttaac
32221	ttgcttgctg	gcccacagct	cacctctctg	tggtccaccc	agttcctaac	aggccatgga
32281	caggtactgg	ttcatggccc	tggggaccgg	tgctctagaa	catcactttg	ttttgcttgt
32341	cttaaaaaat	tcatagtagg	tatcattatc	caaaattatt	ttatttggtt	acttgcatac
32401	cagctaactc	tccccattaa	aaaattggact	ctatgagaaa	gggtccttgt	ctgcatttgt
32461	catttttcat	atctttatct	accacagctg	ttggaatata	atagggtgct	aatacatata
32521	tgtacaataa	atgaatgaat	gaccagttaa	gctaaaggga	ctaggagtag	agacagtccc
32581	tgagaggggg	gatgtgggta	gaacaggcat	tcacagcgt	gtctcttgaa	cttttgcttc
32641	attctaggcc	agagtatgac	acaaagtctc	ctaattttat	aaagggtcag	taagcacaaa
32701	ttgaagggaa	aggtgagggc	aggggcagtg	gatgtgggga	gcgtgggaca	gctcaggaaa
32761	ggtgcagtac	gtgttgctct	gcaaaagtct	tgctccattc	ttttgtccca	agccgcacag
32821	cttttccatt	gtgacattct	gtaactttct	ggaaattttt	tttttatggc	ccttgggtaa
32881	ttttccacgt	ggtcagccag	ctccgtcaag	tgcaatgggt	aggagtggga	ctcagaatgg
32941	ctggggaggcc	ccgagaccat	cagacaggga	agatgcatgt	cgtttgacc	cggcactgac
33001	ttccagctcc	cttttgcgta	ggaggctcct	ggactgtgac	atacaggatg	ttcctgtgtg
33061	gctcttttta	aggaagccta	tttttctccc	atgttaaaac	taaaatctgt	ggtctagctc
33121	ggagcagatg	ttaagagcac	attctctcta	agagtgtggg	ctggagtgtg	ggcaatggct
33181	atttatcacc	gtttcctttt	ctttgtgttt	ctctgtggtt	attgaagttt	ttggtttggg
33241	gaaaaacaac	aaaaacaaaa	atagcaacat	atttatgaac	aaagaagaga	gctaaaactt
33301	aacatctgga	agagaggaaa	gaggggagta	agggtgcctga	aaataatttc	ctttaggagt
33361	gactggaggc	ttcaggggga	tcacagcact	cctgtggaat	ttttacagaa	ctaagggaagg
33421	ctggagtcag	ccaaactttt	gaaacctcag	catcctaaac	ctcaactctt	gctgccctga
33481	gaagagcatg	agccggccaa	gccctgggtg	cggtctcccc	aggacctccc	acttctctcc
33541	tgatgtgcct	gcagtctctg	agctgtgatc	gcctcttctt	tagcttctta	gaaaagaggc
33601	ggcacaagaa	aaacgctcag	tcactttgca	gagacttggc	atctctcagc	aacacgttct
33661	ctctttctct	cttttctttt	ttccttttag	atgggtctct	gttctgcgcg	caggctggag
33721	tgacgtgggt	tgatctcggt	tcacggcaac	ctctgcctcc	tggtttcaag	cgattctcct
33781	gcctcagcct	ccggagtagc	tgggactaca	ggcgcacacc	accatgccta	gctaagtttt
33841	gtattttttg	tagagacggg	gtttcaccat	gttggccagg	atggcctcga	tctcttgacc
33901	ttgtaattca	ccgcctcggg	cctcccaag	tgttgggatt	acaggcgtga	gccaccacgc
33961	ccggcgcaca	cattcttatt	aacttgatgg	cacagtgtgc	tggcagggtc	cagggtcatg
34021	ttctcagtga	ttggagtctt	tgctgtttct	tggactcctt	catgtctcac	ccagtcctaa
34081	gtcccttctt	tgcttcttaa	tttaatttatg	tccttgtgta	atatgtggca	caccacata
34141	gccatgaggc	atgttcaggc	tgtgtttttt	aatgttcttg	cttgttctac	atttgccaag
34201	tgggcaagga	cagcagttac	ctgattggct	ccatttgggc	agcagaacct	aaacagtgc
34261	tacctgtttg	aatccacctg	gcctagggtat	cttttgtttg	tttgtttaaa	taacaacaag
34321	catttcttat	ggtgttttgt	tttctctctga	actctgtaaa	gacaatggca	acacagaggt
34381	cagtctagaa	tgactatact	ggcactagga	gatgagaact	atagaagtgg	aattaagcaa

FIGURE 4-J

34441	atgtatagac	acaaaatcat	cacaaaaagg	gtgaagtgtc	gttcagttat	tgatgccagt
34501	cctctttctc	taggggactg	tgacagctgt	agccagatgt	gtccaggaga	ttatctctgt
34561	cctgattctg	tcagcatcct	cttcatttat	tgtctggttt	tgcttctaag	tcttctcttg
34621	catctcaagc	tgtctgcatg	ccatactgtc	tgcatcgaaa	tgatttgctt	gcttaaaatg
34681	agtcttggcc	agggtcgagt	gctcacgcct	gtaatcccag	cacttcggag	gccaaggact
34741	cctgaggtca	agagtccgag	agaagccttg	ccaacatggt	gaaacctcat	ctctactaaa
34801	aatacaaaat	tagccaagtg	tggtggcaca	tacctgtaat	cccagctgag	acaggagaat
34861	cgcttgaacc	cgggaggcag	agggtgccgt	gagccgaggt	gccactgcac	ttcagcctgg
34921	gcaagacaga	gggagactct	gtctcaaaaa	aaaaatgggt	cttaatatac	atagtgggga
34981	attctcagtc	tctccatcag	cagggtgctga	aagctcacaa	taaaggagaa	aattttcaat
35041	agctgttttt	ttttttaaga	gatggggctc	tgttctgtta	cccaggccag	atgcagtagt
35101	gtgggtgatca	tggtcactg	cagcttcaac	ctccctgggt	caagtgatct	tcccgcgtca
35161	gcctcccaag	tagctaggac	tacagggtgtg	tgccaccaga	cccaggtgat	ttttaatat
35221	ttatagacat	cttgctatgt	tgctcaggct	ggtctcaaac	tcttgactc	aagcaatccc
35281	gccatcttag	cctctgagt	tgctgggatt	ataggcgtga	gccactgctc	ccggcccagt
35341	agtcattgtt	ttgaggaagt	ttatttttat	ccagtatgtt	tggtctgca	tgggttccct
35401	aagatactag	ggactgtctt	tgggtcacaa	agccagcatg	acactaacat	gggtctcaat
35461	atcctttgct	tgatagcttt	ggacctgaac	atcacctgac	agctccacac	actgtgttct
35521	ggcttgttcc	taatcctgcc	agttcctgac	ctgccattgt	tccatgtttg	gcttcacctt
35581	gtcttttgca	cctgacattt	gggtccgtgt	gctggctcta	ttccacctat	ggcaacctga
35641	ataaaaactc	tctttccagc	cttgtttcta	aagctcttcc	ttggcccaga	tccccttagg
35701	tggcttctac	cagccttgct	cagcttgagg	gcattggccta	gacacctgtg	aggtctctct
35761	cctgcctcca	gctgtgccca	ggattggctt	ctctcagct	gtgcctcatg	ctgggccaca
35821	tcatgggagc	aggctggcca	gcaggggtgg	atgctgacct	acaaagggct	ccttactgcc
35881	aaaagtcatt	gattccccat	ccttctggtc	taccattaaa	catctgtagc	cacttagggg
35941	tttgactttt	aactatttct	tgaccacata	cctccattac	cctccagaga	gcaccctttt
36001	agaaaataat	gtaatagtta	ctacatttgt	tcaatgattt	acagtcaaca	gagcacttta
36061	gtatatccac	atgtattatc	tcatttccat	actttctttt	tttaagcaaa	cataaaataa
36121	ttttatcaga	tacaacaaaa	attaaaaaat	aacaaaagta	tcacatataa	tgttatattc
36181	ccattttaaat	ataacataga	aaaatactac	aaaataagaa	atacaaaacc	aaaacctaga
36241	taagattttt	tttattatga	tgggtgtgct	tgctgtttca	taagttcatt	ccagttctgga
36301	acacaggaag	ataatgctac	ccacatagct	gctgcaccat	ttgatccatt	gcttctgtgt
36361	gcttttaact	gagttaagat	agaaaaccct	agttcacaca	aactagttgt	tgtgaatggg
36421	agtaatatga	ggacactctt	tctacttaac	aaaggaaaagt	cttcctttac	cttaattcaa
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36541	gataattcat	tctcttcttc	aggcaccagt	tattaactaa	gcccagttat	tgattctggg
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36661	agtggcacga	tctcggctca	ctgcaacctc	tgcttcttag	gttcaagtga	ttcacctgcc
36721	tcagccttcc	aagttagctg	gactagaggc	gcacaccact	acaccagct	aatttttgta
36781	tttttagtag	agacgggggt	tcaccatggt	ggccaggatg	gtcttgatct	cctgagctcg
36841	tgatctgccc	gcctcagcct	cccacatgct	tgggattaca	ggcgtgagcc	agggcacctt
36901	gccgcaagcg	gatcttttac	ccaactattt	tccctgaatg	tttcaaaatt	tcttcttgga
36961	aagaaatggg	taaaaatttg	agatagagaa	gtgagattca	acaatgtctc	taattttatt
37021	tctttcaaaa	tgtttccatt	aataatattc	tcttcaatat	gttgcaaaaa	tcttggaaac
37081	gtagtagcta	ggacagttac	ttgtaagtct	tgcttgccat	aacaataatg	tctttcgaaa
37141	tccctggata	tgtctgacat	gttggaatac	atcactgttt	ttccccgtg	gttttaaatt
37201	cagttttatta	agaataccaa	aaataccagt	taaatatgcc	aattttttta	tccaaatgtc
37261	atcttcaaaa	atatttgcca	aatgagattt	ttttcaatga	gaaaaaaagt	caatctgatt
37321	cctgagctca	taaaacctgc	ttagtatttt	cccttgagac	aaccaacgaa	ctttgggtatg
37381	acacagaaag	tgggtatggg	tagttccaat	ctctgaacaa	aacgtttcaa	gaagctgggt
37441	attcagtgag	tttcctttta	taaaactgac	aacttcactg	catttttctg	tacttccatg
37501	agatactgtg	gaatttctct	ggatgctaaa	ccttcatgat	gtataaaaca	atgattccac
37561	acagtacaac	tattagtcac	ttctagtaat	tttttaatga	ctctgctgtg	ttttccagtt
37621	acttttgctg	tgacgtcacc	tgcaattcct	ttacagtttt	tccagtttaa	tttatattga
37681	ccaactctgt	gcctttctaa	tctctgtaaa	atatctaata	tacttgggta	tgagggtaaa
37741	cttaaaaaac	acaaaagacc	ctccataaaa	tcacttttcc	acgcataatc	gacataaact
37801	gaatgtcttg	tgacgtgcc	aatatcatca	gtgctttcat	cacactgctt	tgcaaaatct
37861	ataccagact	gttatggagt	aataagcatt	gtttctaaac	gttctgcaat	actacaaatc
37921	caaagagata	attgtgttat	cattagatat	agtttttaat	ttatcagcta	atttctcatc
37981	aaaaatcata	tgcatgttat	ccaaacatgc	tggagaataa	attttttcag	cagctgtgtt
38041	agctatgttc	tttttgccac	attgatgca	actaaatatg	atgatacggc	tctctcacta
38101	acagtagtag	aacaactaag	aaattgtgtt	gatcatttta	tgtcttcttt	ctttcttcga
38161	aaatattcaa	gaggcttatc	aataagttca	gcatgctgaa	tttctaagtg	cctttttaat
38221	ttaggtttta	agctttcatt	tgcaagaata	ttattacaaa	taacacactg	aggtctgtca

FIGURE 4-K

38281	ttttcagtg	gcttttcaca	tttgataaag	ccatatttta	agtaatcata	atagcgtctt
38341	gcacttaagt	ttttcttttt	gaaatgaggc	tcaaatgaag	tttcagtttg	cagatttagag
38401	tctgtatttt	tctcagtatt	gtcactattc	acacttccaa	attcaacaga	tgaacttcag
38461	catgcttctg	tatatttcat	ttcatgattc	ctctttcttt	taataaagaa	attatgcatt
38521	taatagcaat	tttttccagt	ttgattaaaa	tgggtataatt	ggtactaact	caaaaaagaa
38581	gaaaaaata	cacatatata	tagttttaa	gacatctttt	caaaaactac	actcaaagtt
38641	tgcaattgaa	tctcagttga	ctatctccag	tttcaagtca	ttgtaatata	aaacttgact
38701	gcacaacatt	cactttgcta	atatgaaaac	caagcgagac	acccaagagc	aaatgactga
38761	aaaccacttc	ttagccaaca	tacattgtat	tcatcatatc	ccctccatca	aatacctttc
38821	tcacatatgg	aaattgacct	cactattcct	tgcaacatgc	acaattcagg	caaaggatcc
38881	atgcaaagca	ctttgatatt	ttacactttt	taagttatac	tttaagttct	gggatacatg
38941	tgcaaaatgt	gcaggtttgt	tacatacgta	tacacatgcc	atggttgattt	gctgcaccca
39001	tcaacccgct	atctacatta	gatattttct	ctaagtctat	ccctcccca	tccccacc
39061	ccaacaggcc	ccagtgtgtg	atgttctcct	ccctgtgtcc	atgtgttctc	attgttcaac
39121	tcccacttat	gagtgagaat	atgtgtgtgt	tgggtttctg	ctcctgtgtt	agtttgcgtg
39181	gaatgatggg	ttccagcttc	atccatgttc	ctgcaaagga	cataaactca	tcctttttta
39241	tggctgcata	gtattccatg	gtgtatgtgt	gccacatttt	ctttatccag	cctatcattg
39301	atgggcatat	gggttggttc	caagtctttg	ctattgtgaa	cagtgtgca	ataaacatac
39361	gtgtgcatgt	gtctttacag	tagaatgatt	tataatcctt	tgggtatata	cccagtaatg
39421	ggatcactgg	gtcaaagtgt	atcttctggt	ctagatcctt	aaagaatcgc	cacactgtct
39481	tccacaattg	ttgaactaat	ttacactccc	actaacagtg	taaaagcatt	cctattttct
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39601	tgagatggta	tctcattgtg	gttttgattt	gcattttctt	aatgaccagt	gatgatgagc
39661	attttttcat	atgtttattg	gccacataaa	tgttttctat	tgagacgtgt	cctattcata
39721	tccttcgctg	actttttgat	ggggtgtgtt	tttctgaggg	ttgcctgttt	actctgatga
39781	tagtttcttt	tgctgtgcag	aagctcttta	gtttaattag	atcccatttg	tcaattttga
39841	cttttgttgc	cattgtcttt	ggtgttttag	acatgaagtc	gttgcccatg	gttgcctcct
39901	gaatgggtat	gcctagggtt	tcttctaggg	tttttatggg	tttaggtcct	acatctaagt
39961	ctttaatcca	tcttgagtta	atttttgtat	taggtgtaag	gaaggggtcc	attttcagtt
40021	tactgcatat	ggctagcctg	ttttcccaac	accattttat	aaatagggaa	tcctttcccc
40081	attgcttggt	tctgtcaagt	ttgtcaaaga	gcagatggct	gtagatgtgt	ggcatttatt
40141	tctgaggcct	ctgttctgtt	cgtttctgtt	atatgtctgt	tgtagtacca	gtaccatgct
40201	gttttggtta	ctgtagcctt	gtagtatagt	ttgaagtcag	gtagtgtgat	gcttccagct
40261	ttgttctttc	tgcttaggac	tgtcttcaact	atatgggctc	ttttttgggt	ccaaatgaaa
40321	tttaaagtag	ttttttctaa	ttctgtgaag	aaagtcaatg	gtagcttggt	gggatagaca
40381	ttgaacatt	aaattacctt	gggcagcatg	gccattttca	cggatttgat	tctgtcatc
40441	catgagcatg	gaatgttttt	ctattttctt	gtgtcgtctc	ttatttcctt	gagcattggg
40501	ttgtagttct	ccttgaaaag	gtccttcaca	tccttcgtaa	gttctattcc	taggtatttt
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40621	attggtgtat	aggaatgcct	gtgatttttg	tacactgatt	ttgtgtcttg	agacttttgt
40681	aaagtttctt	atcagctaag	gagatttttg	gctgagatga	tgggggtttt	taaatgtaca
40741	atcatgtcat	ctgcgaagag	agacaatttg	acttcctctc	ttgttatttg	aatacccttt
40801	atttctttct	cttgccctgat	tgccttgccc	agaacttcca	atactatgtt	gagtaggagt
40861	ggtgagagag	ggcatccttg	tcttggtgcc	gttttcaaag	ggaatgcttc	cagtttttgc
40921	ccattcagta	tgatattgcc	tgtgggtttg	tcataaatag	ctcttattat	tttgagatac
40981	gttccatcaa	tacctagtgt	attgagagtt	tttagcatga	aggggtgctg	aattatatca
41041	aaggcctttt	ctgcatctat	tcagataatc	atgtgttttt	tgtcatttgg	tctgcttatg
41101	tgatggatta	catttattga	tttgcatatg	ttgaaccagc	cttgcatccc	agctatggag
41161	ccaacttgat	cgtggtggat	aagcttttgg	atgtgctgct	agatttgggt	tgctggtatt
41221	ttattgagga	ttttcctatc	aatgttcac	agggatattg	gcctgaaatt	ttctttttct
41281	gttggtgctc	tgccaggttt	tggatcagg	atgatgctgg	cctcataaaa	tgaattaggg
41341	aggagtccct	catcttctat	tgtttggaat	agtttcagaa	ggaatgggtac	cagctcctct
41401	ttgtccctct	ggtagaattt	ggctgtgaat	ctgtctgggt	ctgagctttt	tttggttggg
41461	aggctattca	ttactgcctc	aatttcagaa	cttggtattg	gtctattcag	ggatttcact
41521	tcttctctgt	ttagtcttga	gaggggtgat	gtgtccagga	atttatccat	ttcttctaga
41581	ttgttttagtg	tatttgcgta	gaggtgttta	tagtattctc	tgttggtagt	ttatatttct
41641	gtgggattaa	tggatatac	ccctttatca	ttttttattg	cttctatttg	attcttctgt
41701	ctattcttct	ttattagtct	ggctagtggg	ctatctattt	tgttgatctt	ttcaaaaaac
41761	tggctcctag	attcattgat	ttttttgaag	gggtttttgt	gtctctatct	cattgtctgt
41821	ctgatctcag	ttatttcttg	tcttctgcta	gggttttgat	ttgtttgctc	ttgcttcaact
41881	agttctttta	attgtgatgt	taggtgtctg	agtttagatc	tttctgtgct	tctcctgtgg
41941	ccattaagtg	ctataaaatt	ccctctaacc	actgccttag	ctgtgtccca	gagattctgg
42001	tatgttgtgt	gtctgttctc	attggtttca	aagaacttat	ttatttctgc	cttaattttg
42061	ttattttacc	agtaggcatt	caggagcagg	ttgttcagtt	tctatgtagt	tgtgcagctt

FIGURE 4-L

42121	tgagtgaagt	tcttaatcct	gagttcta	ttgatttcac	tgtggtctga	gagactgttt
42181	gctatgattt	ccattctttt	gcatttcctg	aggagtgttt	tatttccaat	tatgtggtct
42241	attttagaat	aagtgtgatg	tggtactgag	aagaatgtat	attctattga	tttggggtgg
42301	agagttctgt	agatgtctat	taggtctgct	tggtccagag	ctgagtttga	gtcctgaata
42361	tctttgttaa	ttttctgtct	cgttgatctg	ccagtggggt	gttaaagctc	ccccctatta
42421	ttgtgtggga	gtctaagctc	ctttgtaggt	ctctaagaac	tttatgaatc	tggtgtctcc
42481	tgtattgggt	gcgtatata	ttaggctagt	tagctcttct	tgttgcgttg	atccctttaa
42541	cattatgtaa	tgcccttctt	tgtcgctttt	gatctttgtt	ggtttaaagt	ctgtttcatc
42601	agagactagg	attgcaacc	ctgctttttt	tttttttctt	tccatttgct	tggtaaatat
42661	tctccatcc	ctttattttg	aacctatgta	tgtctttgca	agtgagatga	gtctcctgaa
42721	tactgatgcg	tcttgactct	tcaccaat	tgccagtttg	tgtcttttaa	ttggagcatt
42781	tagcctgttt	acatttaagg	ttagtattgt	tatgtgtgaa	tttgattctg	ttattatgat
42841	gctagctggt	tattttgccc	gtcagttgat	acagtttctt	catagtgtcg	atggtcttta
42901	caatttggtg	tgttgcagt	ggctggtact	ggttgttcct	ttccatgttt	agtgtctcct
42961	tcaggagctc	ttgtaaggca	ggcctggtgg	tgacaaaatc	tctcagcatt	tgcttgtctg
43021	taaaggattt	tatttctctt	tcgcttatga	agcttagttt	ggctgatatg	aaattctggg
43081	ttgaaaattc	ttttcttcaa	gaatgctgac	tattggcccc	cactctcttc	tggtctgtag
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43201	tttctctctg	gctgccctta	acattttttc	cttcatttca	accttggtga	atctgaggat
43261	tatgtgtctt	gggtttgctc	ttcttgagga	atatctttgt	gggttctctc	gtatttctctg
43321	aatttgaagt	ttgacctgtc	ttgctagggt	ggggacgttc	tcctggatga	tatcctgaag
43381	agtattttcc	tacttggttc	cattctccct	gtcactttta	ggtacatcaa	tcaaatgtag
43441	gttttgtctt	ttcacatagg	tccatatttc	ttggaggctt	tgtttattcc	ttttcattct
43501	tttttctctc	atcttatctt	cacactttat	ttcattaagt	tggcttcaa	tctctgatat
43561	cttttcttcc	gcttgattga	ttcgggtatt	gttacttgtg	tgtgcttcac	gaagtctctg
43621	tgctgtgttt	ttcagctcat	ttatgttctt	ctctaaactg	attattctag	ttagcaattt
43681	gtctaaccct	ttttcaaagt	tttagcttct	cttgcatggg	gttaaaacat	gctgtcttag
43741	cttgaggagg	tttgttatta	cataccttct	gaagcctact	tctgtcaatt	ggtcaaactc
43801	attctccatc	cagttttatt	cccttgctgg	gcgaggagt	gtgatccttt	gaaggagaag
43861	aggcattctg	gtttttggaa	ttttcagcct	ttttgcaactg	atcttctctc	atcttgtggt
43921	atttatctac	cttcagctct	tgtatgtgtg	gatcttcaga	tggtgttttg	gcgtggacgt
43981	cctttttgtt	tatgttgatg	gtatctctt	ctgtttgtta	gttttctctg	taacagctcag
44041	gcccccttgc	tgcatatctg	ctggaatttg	ctggaggctc	actccagacc	ctgttttctc
44101	ggttatcacc	aatggaggct	gcagcacaac	aaagattgct	gcctgtttct	tcctctggaa
44161	gcttcgtccc	agaggggcac	ccaccagagg	tcagctggag	ctctcctgta	ggaagtgtct
44221	gtccatccct	gctgggagg	gtctccag	caggaggcac	aggggtcagg	gacccacgtg
44281	aggaggcact	ctgtccctta	gcagagctca	aacgctgtgc	tggtgagatc	gctgtctctc
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44581	ttacactatg	aggggaaaac	tgccactca	agcctcagta	atgggtgatg	ccctcccc
44641	aaccaagctc	aagcatccca	ggtagacttc	agactgctgt	gctggcagca	agaatttcaa
44701	gtcagtggat	cttagcttgc	tgggtctgta	ggaggtagga	tccgctgagc	tagaccactt
44761	ggctcctagg	cttcagcccc	ctttccagg	gcgtgaatgg	ttctgtctca	ctggtgttcc
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45001	gcacagtc	tcacggtttc	ccttcaactag	gggaaggagt	tccccaaactc	ctgtacttcc
45061	ctggatgagg	tgacacccca	ccctgcttca	gcttgtcttc	tgtgggctgc	acccgctgtc
45121	taaccagtcc	cagtggatgc	agctggatgc	ttcatttggg	aatgcagaaa	tcacctgcct
45181	tctgtgttga	tctcactggg	agctgcagac	tggagctgtt	cctattccac	catcttgcca
45241	gccacctaca	tttatttttt	tttttaagtt	tattgtgact	cacagaatta	atttcatgcc
45301	tcactaatgg	gtcacacaca	tagtataaaa	aatactcata	gagagacatg	ttgtgccctt
45361	tgtgtgtgtg	gtgcctcgag	tatgtcagct	tgatgatgaa	agagactagc	tgatctgcta
45421	gactgttgac	tcgtataaga	atatcttgaa	gtggtaggaa	tgtatcttaa	attttcattc
45481	ctgatacttt	ttcatgggaa	gcgtttttta	gagtgccagc	tatgctctga	tctagtggg
45541	agccaatgag	gttttccatg	gctaggtcaa	atatcaggtt	ggagctgatg	atataatttt
45601	atggaactct	cctggagtgc	atccttgacc	tccagctcag	ctgctgcgac	ccggctaggc
45661	ccaggaccac	aagcctcaca	tctctccagt	ggagctgcca	ttggccttgc	ccccgattcc
45721	ctctgaaaca	ccacgtcccc	atactctctt	ctaatttctt	ttgcaaagaa	gactgaaagc
45781	cagcttaatct	agtaggcaca	ttagggcaca	gccctataaa	aaagtattaa	ttttaatttc
45841	ttttaaaaa	agaaaaaa	gaatataaaa	tatataacaa	cgaacccaaa	ctggattata
45901	tttgtcttta	tactcatgaa	ttcataaaa	ataattttta	gtattatttt	atggagggaag

FIGURE 4-M

45961	gagctcagaa	agacaaacgt	attggggact	cacaaaagcc	ataaataatt	tggccctgat
46021	attggccctg	ataggaccct	gactcattgg	ccatttttgg	gcattgactt	gctgtgtaaa
46081	tttggatatg	tttcttaata	taagggtttt	ttttttctgc	cagaaaaatg	ggaagaaaaa
46141	tttctgtacc	cgcttatttc	ccagggtctt	tgttaagaca	aaggtaataa	ctctgacagt
46201	gtctaaactt	ttcagaagat	tggtttatat	aataggacta	tttcaattgc	acataacagg
46261	tatccatctc	aaatcaacat	agaaagaaag	gaaatatatt	ggtgatcata	actgaaaact
46321	ctaggtttca	gctttaagtg	tagctggctc	aggaaaccca	aaaattttgc	caggaatctg
46381	tttctctctt	ttcctctctt	gtgggcctgc	ttctctctat	gatgaatttc	tttcttagca
46441	cacttttccc	acatgttgaa	agaatctcaa	agactccagg	ttttcagaat	ccttaagctt
46501	gtgacctcag	aagaagagac	tcctcctaga	gccccccctg	ttcctcagag	gactccaact
46561	gctcattgct	tgggcatctt	ggacatccct	gtgtccaggg	gatgggtctt	ctgtctggcc
46621	agcttgatcat	atttgccctt	cttcctccct	attacttgag	tggcagtcct	acaagtctcc
46681	cttgaagaca	agggcagaac	cattttctaag	tgaagaaaca	caagcagacc	aaataacatg
46741	tccattccag	ggctgatcag	tctgaggcat	tgttaaaatt	atccctcttg	caggacgtta
46801	gaaccaattg	agattcatct	agaacctcta	cttaattttc	cagatgtgag	ttctgtgtgt
46861	gaccatcagg	gtttagtaga	tactgcacag	actcatttaa	ttgtcacaaa	acctgtgagg
46921	caattatttag	ctctacttct	acagataata	aatgtaaaaa	attattgaga	gcttgccata
46981	aactaagcac	tttgctaaaa	accctacata	tatctaataa	aaattccatg	aggtgctgag
47041	tctgttgagg	ttcttttagat	tgtaaagcaac	agaaacccaa	tctagctagt	caggaaaaga
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47161	acaatcaaaa	cttgaagga	caagaaccca	ttcttgccctg	atcttgtccc	cttaggaggt
47221	gaatttgggg	ttaaacctgg	tgcagctctg	ctagctccta	gccccattta	tcactctggt
47281	ccaaatacca	cgtttcaggg	tgggagaatc	tgattggcct	atcttgggtc	aggtgtatat
47341	ccctggacca	atcaggttga	aggacctgt	aacataggca	tggccaccag	gctctctcag
47401	gtttatatag	gagctgtgct	cagagaaatg	gaatccctgt	gagctgattg	gtcactcaaa
47461	gggagataac	tgaagcaca	caattctatc	actcagggtc	ttggcacatt	gaaaagtggg
47521	taattgaaga	gcatttaatg	agggatttaa	gtgagaagag	tttagggaaa	gcaacaagg
47581	atgttgcagt	atcttggggc	tagtgagtat	gggagctggt	accatcccag	gcctgaaggg
47641	gaaagaggag	gtagtggctt	ctggaaccta	tggaaagagc	tgtcaaaagg	ctgcctgaaa
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47761	ccaggggaaat	aagcaccag	atgtcactct	cctcccacct	tcccatttca	tgggtgcaac
47821	tgaagccag	agggcaaagg	agtccttggg	tgtgtgtcat	ataggccatc	ctcctgggac
47881	acagggtcagg	gtagagagga	atgagagcac	atatggaagg	gcaaatagaa	gacatccaag
47941	acaataatac	aatcccaggt	ttacagatga	ataatctaag	gcttgaagga	cttagtgact
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48061	ctctggaacc	tgtgtcttta	accactaggg	tctatcatct	ctcggatgaa	gaccttgaat
48121	ctagacagca	gattgactgt	gcacagctca	gatgaattac	gttatctcac	tgactccctt
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48241	tgtctggaaga	ttcacacttg	ccattttccc	tctagactct	cccactggga	ttcgcagatc
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48361	gaaggcagct	ctactctcct	gtgagtaggg	atatgattga	gattttaaatt	gaactttcaat
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48481	gagagctaata	accattatca	gatgcctggt	catctcatat	aagtaggcct	attagcgcct
48541	catctgtctt	gctcctggtt	tcctgccact	gcttagagcc	cccagacaag	agcacttcca
48601	atcagggtatg	cagagggaaa	tatcattaac	agttataata	ttatctgtat	ggttttattt
48661	catgtcccat	tattttctag	ctcttttagct	aataataggt	tatatctggt	atacatttaa
48721	tgtatgctag	gtactgcact	gaaatgtctc	atctcatggt	gacaataaac	ctaggaggta
48781	ggtaatatatt	aatccccact	ttacagatga	agaaaccgaa	gcttataggg	cttaagtatg
48841	cctaagggtga	cataattaat	agacagcaga	tccaagattt	gaaccagat	ggactggctc
48901	cagagctaaa	accacttaat	catgatgctt	cttagaacc	tacatggcct	gtattcataa
48961	aatagttgac	tctagacact	cttctcccct	ttcaaagtga	aattttgatt	tgtttatgga
49021	atgggggtgtg	gtggagacta	ctagtgtcca	ccaaatacca	atgtgttcct	ataaagtcct
49081	tattttctggt	gcagttgatt	tggagttatg	tgatgtgtag	cccatcagaa	gtaagcagaa
49141	aactttgtgc	cgttttctRt	cctggaaata	acacccccgc	cccctggccc	cgctgcatta
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49261	aattggccaga	tgKgaacatc	tttactgctt	ggagaaaagc	acacaggagt	tacctgacct
49321	gccttggatg	gtgacatgag	tgaagaaata	acctttgttg	ggtagactg	ctaagattta
49381	aacttaaaag	tgttttttta	atgttttagtt	tttgtggcta	catagtaggt	gtatatgttt
49441	atgggggtata	taggatcttt	tgatatgtgc	atacaatgta	taatagtcac	atcagggtaa
49501	atggagtatc	atcacctcaa	acatttatct	tttctttgtg	ttacaaacaa	tcccattaca
49561	cagtttttagt	aatttaaaat	atataattaa	attatYgtta	atgatagcca	ccctgttgtta
49621	ctgtcaaaatt	ctagatctta	tttctttcta	ttttttgtac	ccactgatga	atctctcttc
49681	ccccctaccc	caccaactac	ccttccagcc	ctcagtaacc	atcattctgc	tctctatctc
49741	catgattcaa	ttgttttagt	ttttagctct	cacaaataag	tgagaacatg	tgaattttgt

FIGURE 4-N

49801	ctaactgtgt	ctggcttatt	tcacttaaca	taatgacctc	cagttctatc	catatttttg
49861	caaatgacag	gatctcattt	atttaattgac	tgaatagtac	tccattgtgt	atatgtatta
49921	cattttcttt	atccccttgt	ctattgatgg	acacttaggt	tgtttccaaa	tcttggtat
49981	tgtgaataga	cactaagatt	tttgagttaa	tttattacta	gggtatagtt	tatcatacta
50041	tgactaatat	aaatatcata	ctaagacaga	tatagggtaca	ttgaaatagg	gcactgctat
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50161	tgttatgttg	tgccaaaata	tttStaacca	atctaacttg	ggaggcaagc	ttcatattta
50221	cttatatggc	atctctagga	aaagagactg	aaaaacagaa	cattagtaga	tggtgtggct
50281	actatttctg	catttggtcaa	gtattacaag	aaaacttcag	aataggactg	gccagagact
50341	tgacagaatg	acaatacatg	atccaactat	atgctgcata	taagagacac	atKtttgatt
50401	Maaaaacaga	aataggttca	aggtaaaaga	atggaaaaaac	atataatcagg	caaacagtaa
50461	ccaaaagaaa	gctggagtgg	ctataactaat	atcagacaaa	atagacttta	agacaaaaat
50521	tgttatcaga	gacaaagaac	agttttataa	ttataaataa	atcaatttgt	caagaagata
50581	taaaaattat	aaacatatat	gcacctaaca	acagagaccc	aaaatacatg	aaacaaaaac
50641	tgacagaatt	gatacaataa	tggttgaaga	cttcaatata	ccactttcaa	tcatggatag
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50761	atctaatagc	aataaaccct	ttcactcaga	aacaactgac	tatacattct	tcttaagtgc
50821	acatggagaa	ttctccagtt	tagaccatat	gtcagggtcat	taaacaagtt	tcagtaaatt
50881	tcaaagtctt	gaaataatat	aaagtatgtt	tcctaaccac	acagaatgag	attagaaatc
50941	aataacagag	ggaaattcac	aaatatatgg	aaattaaaga	acatttctga	ataatcaatg
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51061	catgacatac	caaaaacttat	gggatgaaac	caaagcagtg	cttagagaat	attatagcta
51121	taaacaccca	aattgaaaaa	aggacaaaga	actcatatta	gtaacctaaa	cttctacctt
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51241	aagattagag	cagaaaggaa	tgaaatgtaa	atagaaaaaga	atagagaaaa	aaaaacaaac
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51361	agagaggagag	agagaggagag	agcatagaga	gagagagaga	gagagacaga	gagagagaga
51421	cagaatcaaaa	ttactaaaat	caagaatgaa	agaggggatg	ttgctaccga	ccttgcaaaa
51481	atagaaagga	atataaggta	atattatgaa	cacttggtgtg	ctaattgtgtt	agataatcta
51541	gataaaatga	acagattcct	agaaagacac	aaattactga	aattgactca	agaagaaata
51601	gaaaattgaa	acagacctgt	aacaaggtaa	gagattgaat	tagtgattaa	agtactttgc
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51721	agagttaagc	ccaatacttc	acaaatactt	ccaaaaatta	taagaggaga	gaacattttc
51781	caagtcatte	tatgaggcag	tattactttg	ataccaaaag	cagaacaaaa	tatcacaagc
51841	agaaaccaat	attccttata	aatatagatg	caaaatcctc	ataaaaaatac	cgggaaactg
51901	aatcagcaac	atataaaaag	tatttttatac	catgacaaaag	caggacttat	ggcaggaatg
51961	caagattgat	tcaacatgca	aaaatcaata	aatgtaatat	gccatattaa	taagtataag
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52141	aaaaagcata	tatgaaaacc	ccacagctaa	catcatacct	aaaggtgaaa	gaataaaaagc
52201	tttcccctaa	gataggaatg	aaacaaggat	gtccactctt	gttacttcta	ttcaacattg
52261	tactgtagggt	tgtagttagg	gaacttgatc	aagaaaaaaa	ttggcatcta	tatttgaaag
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52381	aatccacaaa	aaaaatctta	gagctaacaa	tgagttcagc	aaggctgcag	gatataaggt
52441	taatatacag	aaattgcttg	tattttctgta	cactaataat	gaacaatcca	aaaaatgaaat
52501	taagaaaata	attccattta	cagtagcatc	aaaaagaata	atatatgtag	agacaaactt
52561	aacaaaagaa	ttgcaatatt	tgcacactaa	aaaaagatga	aacactgcta	aaggaaatta
52621	aagaagacct	aaataaatga	agacatcgca	tattcacaaa	ttggaagact	caatattgta
52681	agatggcagt	actccccaaa	ctgatgtatg	cttttgaata	atatacagta	tgttccctaa
52741	ccacaacgga	atgaaattag	aaaatcccag	ccaggttttt	gcagaaattg	acaagctgat
52801	aataaaattc	atgtggaaat	acaagggatc	cagaatagcc	aaaataatct	tgagaaagaa
52861	gaacaaagtt	ggggcattca	cattttcagg	ttcaaaaactt	actacaaagt	gtaataataa
52921	agatagtgtg	gtactagcat	aaggatagat	atataaatca	atcaacagag	agtcagaaaa
52981	ttagcccacg	tatttatagc	caattgattt	tcaataaagg	tgccaagacc	attcaataag
53041	gaatgaatag	tctcttcaac	aaatggagct	gagaaaaactg	gatatccatg	caaaagaatg
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53161	cttaagagct	aaaactataa	tactcttaga	agaaaaacata	ggtatacatg	gccttggtatt
53221	atgcaatgat	ttcttacata	tgataccaaa	agcacaaagca	acaaaagaaa	aaacagtctt
53281	catcaaaaatt	aaaggacact	attaagtgtt	tcaaagaaca	ctataaagag	agtgaaaaga
53341	caactcagaa	cttgagaaaa	tatttgcag	tcatgtgtat	ctgataaaca	tctagtatcc
53401	agaatatata	aagaactatt	ataactcaat	aacaaaaaga	aataacctaa	tttttaaatg
53461	cacaaaggat	ttgatagatg	ttttttccaa	ataagataca	caaatggaca	agaagcacat
53521	gaaaagatgc	tcaaaatcat	tagtccattag	ggaaatgcaa	attaaacctta	aaatgggata
53581	ccacttccta	ctcactaaca	tgactgtgat	taaatagaga	caatgacaag	cgctggtgag

FIGURE 4-O

53641	gatgtggaga	aattggaacc	cttatacact	gctgggtggga	agtcatatgg	tgttactagt
53701	ttggaaaaata	gttttgaaagt	tcgtcaaaaat	gttaaacata	caattcctgt	atgacccatc
53761	aattccactc	ttaggtacct	atctaagagc	tataaaacac	acacattccc	ataaaaaatct
53821	gtatataatt	tttcgtggca	caattatttta	taatagctca	aaagtggaaa	caaccctcat
53881	gtccatccac	cgatgaacgg	attaaaaaaa	atagtgtgtc	tatacaatgg	aatatgattc
53941	atccatataa	agaaataaag	tactgattct	cattacaaca	tggtgaacc	tcgaaaacat
54001	taactgaaag	aaattggaca	caaaaggccg	tgtatttatat	tatttcattt	atctgaaatg
54061	tctagaatat	gcaaattccat	atccatatct	acagatagta	gattaatggg	ttctaggaga
54121	gaggagaagt	ggtaaatgga	gagtgactgt	taatggttcc	aaggtttctt	ttggggctgg
54181	tgataatatt	ctgaaattag	atagtgggtga	tggttgacac	actttgtaag	tatagtaa
54241	accactgagt	tgtacacttt	aaaaacagtg	aatatcatgg	tatgcgaatt	aggtctaaat
54301	tttaaaaaat	ttaaaaaaga	gttgccctgtt	tgccagtaga	aattaactaa	aatagagaaa
54361	attcagaata	ctgaggcctg	tagaattgaa	aaaattgact	gtttctagtt	tcgggatagt
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54481	aaaatcccag	ctcatgccta	taatcccaga	actttcagag	gctgaagtgg	gaggattggt
54541	tgagtccagg	agttcaagac	cagcctgggc	aatatagtga	aaccccgctc	ctacaaaaaa
54601	attaaaaaac	tagctgggca	aagtgggtgca	cacctgtagt	ctcagctagt	tgggaggctt
54661	agggtggagg	attgtttgag	cccgggaagt	tgaagttaca	gcaaaccatg	atcgtgccac
54721	tgactccac	cctggatgac	agagtggat	cctgtctcag	aaaaaaagga	aaaaaa
54781	aaagggaaat	atctgattaa	aggtgcattc	ctttgttcta	gctagcttca	aggtagacac
54841	tatcatattg	aaagacagag	ggagcagggg	gacagaagg	cgaaaggtaa	agcaagttgg
54901	aaaactgtat	cttacaaaag	caacctgtag	tgtggatatt	ggcaaataga	tcagatgctt
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55021	gtccattagc	taagccttaa	agcaacctct	ggtaggaagt	tgacatccc	ctaaagagag
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55201	ctaggcagcc	tttataacat	ctgccactg	gtatttcagc	actgtcacag	gcagctacta
55261	ctgtgggtct	cttagtcttc	ccctttctga	atgggagtta	tcctgttcct	gttattgtag
55321	ttatcctatt	cttgttctat	tatcgcatat	ttgtatgctg	tcatggtgtg	ttagtctgtt
55381	cttatgctgc	taataaagac	gtaccagaga	ctgggtaatt	tacaagaaaa	gaggtttaat
55441	gaacttacag	ttccacatgg	ctggggagcg	cttacaatca	tggtggaaga	cagaggaaaa
55501	gcaggaggac	atctttacatg	tcaggcagca	agagagcttg	tgagggggaa	ttcctcttta
55561	taaaaccatc	agatcttggtg	agacttattc	actattatga	gaacagcctg	agaaaatacc
55621	caaccccatg	attcaattag	ctctcaccaa	gcccctccca	tgacatgtgg	gaattatggg
55681	agctacaatt	ccagatgaga	tttggtctgg	gacacagcca	acccatatca	catggatatg
55741	aggcagacaY	cttgactttt	cagttcacag	gtgtaagaga	agccatgtct	tttctgata
55801	gagaggacta	agaaatgcaa	agctataata	gattggactt	tggtatgtct	ttcgtgagga
55861	gtggtggaag	atgctctacc	ttcaggacga	agggaacaaa	gggatattta	atggccagaa
55921	gagtgaactg	cagtggagac	tggtgttgct	caccaagttg	gctcacatgt	gcttctctaa
55981	atttcccagc	ctaagggtgt	gtccagtaat	tttcctttct	tgtaatatct	ttctgagctt
56041	ttggaatcaa	tggtttgtgg	gccttataaa	atgagtttga	atgtttccct	tcttctattt
56101	tctgacacaca	cctctgcagg	ccagttataa	ttatctctta	aatttttgtg	aagcaactctg
56161	ggcatatagt	tttctttttg	gaaacagttt	taatttcaga	tttgatttct	ttgatagata
56221	tagggctatt	ggtattttaa	aatttcttct	tgtggcaatt	ttggcaaat	gtattttaag
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56461	gctctctctt	ttcttgaatt	gtcttgctag	gagtttatta	agtgtattaa	tctattcaaa
56521	gaataaactt	ttgactttgt	tgattttctc	tattaaatgt	ctgttttcta	ttccattgat
56581	cctgctctgt	attcctctct	tctatttttt	gaggggggta	attttctgtt	ttttgttttt
56641	gtttttgttt	tagctttttt	cctattattt	aaacatatat	tttaaagaaa	gatttttctt
56701	acatagagac	agggtctcac	tatgttgcct	aggctgtctc	caaactcctt	ggcttaagca
56761	atcctccagg	tttggcctcc	caaagtgcg	ggattacaag	tgtgagccac	catgcctggc
56821	catttttcta	gttttttgag	ttgagaactt	agatcattgg	ttgggttttg	ttttgtttt
56881	ttttgagatg	gagttttgct	ctgttgctca	ggctggagtg	cactgggtgc	atctcggtc
56941	actgcaacct	ccacctcctg	ggttcaagca	gttctcctgc	ctcagcctcc	cgagtactgc
57001	ggattacagg	caccactac	cactcccagc	taatttttgt	attttttagta	gagacgggat
57061	ttcaccattt	cagccaggct	ggtctcaaac	tccctatggc	agatcatctg	cccgactcag
57121	cctcccaaag	tgctgggatt	acgggcgtga	gccaccgtgc	ccagccagat	cattgggttt
57181	taaccttctt	tatttttttaa	tatatggact	taatgggtata	tgtttctctc	tagattctgc
57241	tttagcagtg	ttactgacca	cattaccact	cttctctcca	catatccagc	agtgaagac
57301	ttctgatgct	ggaaatgcag	aatgaatctg	catgaatctc	tgagtcactg	tctgggatgc
57361	aagagagctg	cctcacatgc	attggctagt	gatatatgca	agaaacatac	ctttgatgtg
57421	ttgaactgct	ttgtttcttt	cttaagaggc	tggtatggc	ctatcctatc	ctagctgtta

FIGURE 4-P

57481	caagagggct	tgtttttacaa	tagctcttat	atctgtccat	attgcagttt	gcaaagactt
57541	ccatttgatt	cccccaagt	tttttcctga	agatgtggg	ttaacggagg	ggtattacag
57601	catagcacac	aacacaaaac	aattttaatt	taatatacag	tccccctcct	cccccaggga
57661	atttttcatt	gcctgtcttt	cagattcggc	cctgacctat	tgtcaagttt	taagggtccc
57721	ttttctat	aaacctcttt	cctcactttc	catattcttg	cttcttccca	tccatcctat
57781	tccaaagcaa	cccgaagctc	tccagctttg	ctgttgtagc	ttttctttac	cttgatcaa
57841	atcagattct	tactcaaggt	ctcttttcta	ctgaccaatg	catactcaga	tgtctgttag
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57961	gggttttccc	ccagaatcta	gagtggtatt	tttctttatt	gtactgcaac	ttacttactt
58021	ctatgctcag	gttttttattg	atttttatttc	atttgcttta	tttctacata	gttgaaatca
58081	tgttcttgtg	gactgctttt	ctaacttaat	gttctatcag	aagcattttac	catattactg
58141	tataatattg	ggaacatct	gttttatatt	cacatttttt	cctattttaaa	aacataat
58201	tcagtcctga	aggatatgag	aagaacatgc	aactcccca	aatcctactc	ccgggcagaa
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58441	atgtatttgg	atggtccaga	gcaattgtgg	tggcagaagt	ctgtttgcag	aaggactctag
58501	aaacctcttg	ggaaggggtc	tagcctgtga	atgttgttca	ctctggcca	gcctcagagg
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58681	gtgggagggg	tctctccct	tcatagtaaa	aacctggga	cacaactgct	gagccttaag
58741	gccataagcc	ataagcctg	attgagtaca	agtcaccagc	tacaaagaaa	gccaaggaag
58801	gtcagggggc	aaaggtgggtg	acccttagca	ctgtttacag	atcctcactg	aggaggaaag
58861	aaaagctaca	gggacagggtg	ggcttgcca	ggtacttgta	gccatcaggt	tcacaggagg
58921	ccttgagggtc	aggtcagagg	caggaagatc	ctgtgctgaa	gagtaaaact	tggagagggg
58981	ccttgtgaga	tcttgcgagg	gatctggaga	aataggatag	ggcagtgatt	aaaaaggcct
59041	atcaggacca	ggctaacagg	agttaggcag	ggaacatgag	acaaataaat	aacttggaa
59101	ctggcttcat	tggaaagctt	ctgcataatc	actgtagctg	ctctctcatc	ttggcccttt
59161	aggcccagaa	agtaacagcc	ctgatattat	tagctcttga	gtcttgca	gacctcact
59221	gtttccctac	acacttgcca	cacctttgaa	aatagtcctt	ctatgaaatg	acctgttaaa
59281	tcaatttgcc	taatatgaat	gcacctctg	cctgtgctg	ggactactga	tcgagaagcc
59341	attctgttga	tggctccagg	gggacctct	ggaactctgg	ctctcagtaa	ccagctctgg
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59581	gggtgggtgt	attaggggac	aagaaggcta	cagtcagacc	tcagcccagg	gccatgaca
59641	tcactcagac	ctattcctct	tgtctatg	agaggagctg	aacagaaggc	cagaccctgg
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59941	aacacaagag	cctgggcctg	aggaatctta	aaataggttt	gttatatatt	taataatg
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60961	gttatatttg	gaaaggaagg	ctatgcctg	gtgaaattat	acgtgagaca	caaaaaatac
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61081	tggtggctta	attaaaaggc	ctctggcctg	tgccctctgc	cttttattct	ctgctacttc
61141	ctcctttctg	ctccatgaaa	catgagtgtg	atgctgaag	ctctagcctc	cgctcttttt
61201	tttttttttt	ttgagacgga	gtctcgctct	gtcgccagg	ccggactgcg	gactgcagtg
61261	gcgcaatctc	ggctcactgc	aagctccgct	tccgggttc	acgccattct	cctgcctcag

FIGURE 4-Q

61321	cctcccagagt	agctgggact	acaggcgccc	gccaccgcgc	ccggctaatt	ttttttgtat
61381	tttttttagt	agagacgggg	tttcaccttg	ttagccagga	tggtctcgat	ctcctgacct
61441	catgatccac	ccgcctcggc	ctcccaaagt	gctgggatta	caggcgtgag	ccaccgcgcc
61501	cggccgcctc	cgctctctcc	ttaacaaagg	aagagctaatt	ttcccacgcc	ccccctocca
61561	ccacaaagta	tgagggccac	actggaggga	tggtagagt	atggctggaa	gaagtgtggg
61621	gcttttgtgg	aacagcctgt	aatgtccaac	tctggactat	ttagggaaa	gaaatgagac
61681	agaaattttt	ctcttgttta	ggccactatt	attgtgggtc	tctgttacca	tcagccgaac
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62041	tgtttggggc	ttgtgttctt	ctcaagattt	ctgaggacct	ggctcgagct	tctgtgtcag
62101	agtcctcatt	ctgactatgg	ggcctcagtc	cttttttgg	gtttatgctc	tttctctggc
62161	tgctgccctc	ctttcctctt	ctgagccttg	ccagtgtgga	acatgactgt	cttctgtgtt
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62521	cttttaaaaa	tgtttaaaaa	tttttttaaa	atttttgtta	tttttgtttt	agattcaggg
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62821	tctgtggatg	tattgagtgt	tgtaggtact	gtcgaaggct	gatggtggcc	agcccctgga
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63121	agactgcac	tctgggagac	agaggtcata	gcctcacctg	agttccactc	tactcacctc
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63781	tgagccctct	tcttgttgtc	tccctagagc	gtgcccagga	cacccccctc	ccccacttcc
63841	tgccataatc	ctgagtgcac	gcactctgtg	atgaggccta	gctgtcacat	gcactaattt
63901	tcaaagtgtc	cagatttggt	tctcttcttt	ctagaaaccc	atttcagaaa	aaaggaaacca
63961	gatcttaaca	gtaaggagac	tgctgtgcca	attgtcagac	tccagtttgc	ttaggtctga
64021	ttgactacac	agattaaaa	cctgggaagg	aattaggctc	aaactggagt	ggaggggtgg
64081	tgggggaaag	gcttatactc	tcattatgcc	acagcatcag	ggtaggctgc	aatgcccttc
64141	cacacgtggt	gccctgaaaa	tgtccctggt	tattcttctt	tcagccatca	tgtacttctg
64201	aggtaacctat	ttctatccta	gtgtcaggcc	atatgccatg	atttctgtcc	actcaattag
64261	cagaaggccc	cagggcactt	tggtttgaaa	actggctata	tctgatgagg	ctttgtcaat
64321	gtgctctcag	aagcagagtc	cttctcttat	tgcctcctgt	ggggagattt	ggacctctgt
64381	agcagagaag	actgtaaagg	ctgtagagaa	actgggtttt	cggaggctgc	catgcccatc
64441	ttgtatacat	gtatgcattg	tgcaaccatt	attcagaagg	gagcataagt	cagggcatgg
64501	gaacagagac	cccaaacaga	tattggcttc	caaaaacgct	caaataaccc	catccccag
64561	tgcattagga	gtcagagtat	tgttgagggt	aacctgaagc	tctgggtccaa	gtgctttcct
64621	aggtgttcaa	aggtctgaat	gagtgagca	tcaggccgat	tggaggagag	gagctgacag
64681	cacaggtgtg	ctgtccctgg	tgtgaagctg	gaggagagac	tggtggtatt	ccttgggggtg
64741	gggtgagggg	gacagtgggg	gtgagagcta	gaggggggtga	ggggtcgggg	gggtggttgt
64801	attggcagaa	gactagttag	gtggtattct	tgttgaactg	aggcaatgga	agggtagat
64861	taaatacagt	gtcttcacag	gaggtgtaga	atgttccatt	gaaatgtaaa	agaaaaatta
64921	aaacttttat	ttttactttt	tttttagtct	aaaactaaaa	agctaaccctt	caccaatggt
64981	tactattata	cattttaccc	tcaactcaact	catgcattgg	gtgtccatgt	catgcatcat
65041	atcagaggca	agtcagggaa	gagaggaggt	tctacaacat	gggggatgga	gaaggggacc
65101	acagcacctt	ccctggccca	cctgctttca	aaatctattg	ctaggtctta	agaactattt

FIGURE 4-R

65161	gtgtcctggc	agtggataga	catattatca	gttttcacta	aactcttctc	acaaaagaga
65221	caagtgggtt	gaagacattc	ctcaaaggaa	cccatagact	gaaaataata	tgaacaatgt
65281	aagcaaaagc	aaactcagaa	aatggcaaag	ttgacgattt	cttactacta	atatgatata
65341	cattatgatg	attagtcagc	tcagtagtag	tcagctctga	caactaagtt	caaatttata
65401	aaaaagacta	cttgaaacag	ggattttacac	caccatattgt	tggcccttga	ggtatttagct
65461	aataataata	taaacatgaa	atcatgatca	gcaagacatg	taaatgctat	aaactcaggg
65521	caagaagaca	aacctctacg	atTTTTTTTT	cagggatttt	ccaagtcatg	caatacttag
65581	ttgtgtactt	tttaaaaatt	atTTTTTTTg	cgggcgcggt	ggctcatgcc	tgtaatccca
65641	gcaccttttg	aggctgaggt	gggcggtatc	cctgaggtca	ggagttgcag	accagcctgg
65701	ccaacatggt	aaaacccctg	ccctactaaa	aatacaaaaa	aaattagccg	ggcatagtgg
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65821	aagcagaggt	tgcatgtgag	tgagatcata	ccactgcact	ccagcgccctg	ggcgactcag
65881	tgagattctg	tctcaaaaaa	aaaaaaaaaa	atagtgtctca	gaaatctctt	ttgaggcttc
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66001	ttgccatggt	taaagtgact	gagttaatac	agagagaaga	tggtagtaca	taaaaatgta
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66721	atgttttaatt	ttttctttta	catttcaatg	gatcattcta	cacattctac	tttgaagact
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66841	tctgccaatg	caaccacttc	cgctacccct	caccccctcc	acctctcact	gccactgtca
66901	ccctcaccca	acccaagca	gtagcagcac	caccaatctc	tcctccaaaa	ctgggggggtg
66961	gttcgtgttc	tgtccatga	ggactacatg	tgaatttcag	caatcacatt	attcatttac
67021	aaagtacaac	aagaagtga	agcaagaaga	tcatgaaata	ctatgggatg	taataatat
67081	ggttaattaa	aaaattaaaa	tatagcagaa	tctttatagc	actttgtatt	gagatgtgga
67141	atgagactaa	aaatctttct	tatgattcca	aggtttactg	attatctcaa	ggcaacaac
67201	ttgaacgctg	tgaatttaaa	gatgagtttc	cttaacaaag	aacaagtgct	ccaaatttgc
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67321	acacatacac	acacatacac	acacacacac	acacacacac	acacacacag	tactcttttg
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67501	atgccaaaaa	gaagcgtgct	agtgctcacct	atactctcat	agccacaatc	tgcaaaatgt
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67681	gattttcatag	acaaagaaga	gtttttcacat	ttgcaaaatt	gatagatcaa	attttaaacag
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68161	gtatcagacc	aatcagacta	tggggtagaa	ggaatacaac	ttggtgctta	catgagacaa
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68701	tgtagggtacc	caggtatgtg	aaaaatctgg	aggtgggggc	cgcggtgccc	aactctggaa
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68821	ggtgagcgag	ggaggtgca	cggcaccag	tggctttggc	aactaggagg	tcattcagga
68881	ctttgagggg	caggtgaagg	cagagcgagg	agggttggag	agggagcggtg	tgcacgtggt
68941	gtgtgtgtgt	gtgtgtgtgt	gtgtgtgtgt	gtgtgtgtgt	gtgtgttaggt	gatccaagtg

FIGURE 4-S

69001	accagaagga	cgcctggaag	agtggacggt	tggcgaggga	gtgtgtgtgt	gtgtgtgtgt
69061	gtgtgtgtgt	gtgtgtatcc	aagtgcacag	aaggacgcct	ggaagaaacc	aatgcttgcg
69121	ggttgctgca	actacaggga	gcaagtcacc	tgtgcggggc	cgagaccccc	agagtctcgc
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69241	ggtgtggaag	cccggcgggg	ccagcgaggt	tgaggtcttg	ggagcccggc	tggcatctgc
69301	tccgggctgc	ggcgcgggcc	ccgcggagcc	caggaggcgg	cgggtgcttc	cggccaaggg
69361	ccctggcggc	cgccgcgccc	ctgctgtctt	caagtttccc	gttggcgggc	cggcccgggc
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69721	gcatggccct	gtcgtccgaa	cccgggtgag	gcgcgcgagg	ctgcgctgct	gaccttgggc
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70921	caaatggcct	caaaatctgt	ctcaggctct	gaaaatgtca	tgggcagata	acatgtagcc
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72301	cttgagataa	agtcttgctc	tgctggcagg	ctggagtgca	gtgctagggg	gcaattctcag
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72481	ggtttcacca	cgttggctag	gatggtctca	atctcctgac	cttgtgatcc	acctgcctcg
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72661	tgataaaaag	ggatgcagtc	tagtctcggg	caggagaagc	gggcccgtga	tctggttatc
72721	ataaattgtc	ttgatgtttg	ttcgaaaagg	aaataaggct	ttgagcttgg	gatcagtgtc
72781	cttcagtc	cagagacatc	ttggctgcaa	gaagcagcaa	caagttaggc	tcaaggtgga

FIGURE 4-T

72841	attgtgaggt	cctgagaaga	gcttgctctt	ctgggacaga	actgtatttt	tcttctaacc
72901	tgcccatggt	ctggggagtc	ttcccgctt	ttggcttcag	caggaccctt	ggtcattggt
72961	acaacctgtg	tcactcttagt	ggagctgctg	ctggtttctg	tctgaacccg	atgcaatggg
73021	tctcatacct	gtaaactggg	ctccagggaag	gcagctttct	ctaagttgga	aaatgaagac
73081	tcaaggtgga	gggtgtttcc	caaagccgat	accacaagat	attaataggt	gtttttttcc
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75961	gagccactgc	acccggtctt	ggaatgaatt	atctaccaac	tatttaagac	actggtagta
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76081	ctctatgatc	cttgatttta	atgagcctta	tgaatgtgag	ttgaggggct	gtggaatgca
76141	acatctccca	ataactgacc	acaggactgtg	ttttaccagc	aacaggatc	aatttcttat
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76561	actccagcct	gggcaactga	gaccctgtct	ctcaatcaat	caatgaataa	atgcatgctt
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FIGURE 4-U

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77161	gcattcatca	tcaaaataaa	ataticctctc	acacacaggc	agccctgcc	cctggctcatt
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77281	aaataaagca	tgggtatggt	tctatgtatt	aattttttca	tttactgtat	ttttattttt
77341	ttatgtgatt	gcacatcct	cataatcata	attctgatta	cttaacatct	ttttcaagt
77401	agtatgctct	aatttaggca	ttttaaagct	atttatgtaa	ataatgcagg	taaatatcct
77461	tgtgcttttc	attcttagga	ttcttttttt	gaaagaaatt	tgtagaagta	aagtgtctta
77521	gtcaaatggt	atggtgcttt	atggcatttg	cggccttttg	cctgggctgt	tgggttgcat
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77641	ataagggggg	aggtgaggat	ccagtttctg	ttcagcctga	tggagcctcc	tgggtctggt
77701	tctttgtgct	gttccagact	ttctctcccc	tgtcacctcc	tttgatggcc	tcacagcttc
77761	cccctctctg	ctatcaagac	atggaaatcc	ccacaggcag	ctctgttctc	cttctttttt
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78301	ctttaaacca	actttaaaga	aactgtgggtc	ataggtagat	gggaaactcc	tcttccagag
78361	ctgctcccaa	cgagggtggc	ttgtcgaaaa	gggtgcagta	ttaatccatt	ccacaagtgt
78421	tatgctgggg	actgtgagga	gcccctgccc	ggacacatac	gtggacaaa	agaagcagca
78481	cagcatggtg	ggtgagggga	cagaggcagg	aaccagggtg	ctgggttcag	atccctgagc
78541	tgaggtcag	agaggaagg	gatgagagag	aaaggctgag	aacagcaca	atctctctgt
78601	acttattaaa	agtgtgaccc	tgggcatgtt	agctctctat	gccttcattt	tctcatctgt
78661	caagtgggaa	taataagatt	aactgagtta	ataagtatga	agttctttgc	agagtatata
78721	tatgtatgta	tacatatata	aaatatatat	tatatataat	atatattata	tataatatat
78781	attttatata	tatatatata	ttttattttt	aaaattgaga	Ygaggtctc	ccctgtctcc
78841	caggctggag	tgcatgtaga	cgatcataac	tcactgcagc	ctcaacctcc	caggctcaag
78901	agatcctcct	gcctcagcct	ccctagcagc	tgggattaca	ggcatgcac	accatacctg
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79081	tgagccacca	cacccggccc	cagagtatac	tttttttttt	tttttgaggc	agagtcccac
79141	tcgtgtaccc	aggttgaggt	agagtggtct	aatcttggtc	cattgcaacc	ttcactcctc
79201	aggtttaagc	aattctcttg	cctcagcctc	ctgagcagct	gggattacag	gtgcctgcc
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79561	ggatagagaa	agcttctttg	agggagttag	ttttcagctg	ggtaaagagt	gttctaaaa
79621	ctttattttta	tttgctgtgt	cttgtagga	ggttccagag	ggtttggaac	tgaatatagca
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79741	cccagggtct	tgctgtaatc	ttgtgcgacc	ttagctgtta	aagcctctgt	gaagtggggg
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79861	ctgaactctc	tctgttccct	tctcaaacat	gggaacaaa	tcaggagggc	agggctgcca
79921	ggtgctgcag	attccctgag	tttgggaaaa	tggaaagcca	cctagttgaa	cagttcattc
79981	tttgaatttt	gaacacttgc	tttctctctg	cacctaaagt	gcccacatg	cttcacatcc
80041	agttacttat	tgagctaatt	ttgaaatttg	catgctgggt	ttggctctgg	gattccttaa
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80401	aaggagctgg	cagagcagaa	gtctgtggag	accgcaaaaa	ggtttgttcc	caaggcatgg
80461	ttttcgtgta	catagagtca	tgcagaccca	ggcaggctgt	gggtgtgtgt	cctgatatga

FIGURE 4-V

80521	ggcacctcat	ggggactggt	atgtccctag	agctgtgttg	gttccttaac	caagaccact
80581	taactcacct	cttatttatt	gagggatgtc	tcggtgcctc	tgttgcactg	aaaagatcaa
80641	aacccacttt	gctgctgatg	tgaaaaata	cacaccattt	ccaaatggca	tttctctttt
80701	ctttttggaa	atttgaggat	ttcttaggag	acagcaattg	tatttcttct	catcacttga
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80821	ggagatgtta	taatgaacaa	gatagataga	gtccctgggt	ctagacaata	attaagtaac
80881	tggacaaatt	aacttaaaaa	ttacaagtta	taataagtgc	tgtatcagtc	agggccaac
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81961	actggtgtta	aggcaagaac	agagcttcac	cactcataag	accagtgtct	tccttccttg
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82141	ggtcaagaag	agtatgactg	tagagaccct	cattcacact	ccgtgggttg	aacagaaggg
82201	ctgacttcat	caagtgaatg	gtctgcaggg	ccttctgtgt	gttatgaatt	gagcatttga
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83461	acaccctctc	cccagctccc	tctttgtctg	tggcacctcc	catcccactc	cctatttatt
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83941	cacagtagtt	tagggataac	acacctctga	gatcataact	ggataataca	gtgatgatcc
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84241	gacagcgggt	gcagcccaag	gaggggtgag	caaagcaagg	tgaggcgttg	cctcacctga
84301	gaagcacaag	ggatggggga	attatcttcc	ttacccaagg	gaagccttga	gggactgagc

FIGURE 4-W

84361	ctgaggaact	gtgcactctg	gcccagatac	tgtgcttttc	ccatggctcct	tgcaacctgc
84421	agaccaggag	actgcctctg	gtgcctacac	caccagggcc	ctgggtttca	agcacaaaac
84481	aggggcgcca	ttcaggcaga	cactgaacta	gctgcaggag	tttttttttt	tttttttttt
84541	tctgtacccc	agtggcgcc	ggagcgccag	caagacagaa	tcattcactc	ccctggaaag
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84721	gggaggccaa	ggcgagtggg	tcacctgacg	tcaggagttc	aagaccagcc	tgccaacat
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86161	ataagaggaa	aaaaaatgaa	aaggaaatgaa	caaagcctcc	aagaaatatg	ggactatgtg
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87121	aggaaggcca	ttacataatg	gtaaagggat	caatgcaaca	agaagagcta	actgtcctaa
87181	atataatatg	acccaacaca	ggagcaccca	gattcataaa	gcaagtctta	gagacctaca
87241	aagagactta	gactcccaca	caataataat	gggagacttt	aacaccccat	tgtgaatatt
87301	agacagatca	acgagacaaa	attaacaagg	atattcagga	cttgaactca	gctctggaac
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87421	aaaattgacc	acataattgg	aagtataaaca	ctcctcagca	aacgcaaaaag	aatgggaaatc
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87601	aataaggaaa	tgaaggcaga	aataaagatg	ttctttgaaa	ccagtggaga	caaagacaca
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87721	aatgtccaca	agagaaagca	ggaagagatc	aaaatcaaca	ccctaacatc	acaaatataa
87781	gagctagaga	agcaagagca	aacaaattca	aaagctagca	gaagacaaga	aataactaag
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88081	aaattagaaa	atctagaaga	attggataaa	ttcctgggatg	catacactct	cccaagtcta
88141	aaccaggaag	aagttgaatc	cctgaataga	ccaataacaa	gttatgaaat	tgaggcagta

FIGURE 4-X

88201	atgaatagcc	taccaaccaa	aaaaagccca	gaaccagaca	gattcacagc	caaattctac
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88321	agctgggtacc	attccttctg	aaactatttc	aaactcattt	tatgaggcca	gcatcatcct
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89221	aaattgtctc	tgtttgtgga	tgacatgatt	gtatatattg	aaaaccccac	catctcagcc
89281	ccaaatctcc	ttaagctgat	aagcaacttc	agcaaagtct	caggataaaa	aatcaatgtg
89341	caaaaatcac	aagcattcct	gtatacta	aacagacaaa	cagccaaatc	atgagtgaac
89401	tcccattcac	aattgccact	aggagaataa	aatagctagg	aatccaactt	acaagggatg
89461	tgaaggacct	cttcaaggag	aattacaac	cactgctcaa	ggaaataaga	aaggacaaaa
89521	acaaatggaa	aaacattcca	tgctcatgga	taggaagaat	caatatcatg	aaaatggcca
89581	tactgcccaa	agtaatttat	aggttcagtg	ctatcccat	caagctacca	ttgactttct
89641	tcacagaatt	agaaaaaac	tactttaaat	ttcatatgga	acaaaaaag	agcctgtata
89701	gccaaagaca	ttctaagcaa	gaagaacaaa	gctggaggca	tcacgctacc	tgacttcaaa
89761	ctatactaca	aggctacagt	aaacaaaaca	gcctggtact	ggtaccaaaa	catatatata
89821	gaccaatgga	acagaacaga	ggcctcagaa	ataacaccac	acatctacaa	tcactctgatc
89881	tttgacaaac	ctggcacaaa	caagcaatgg	ggaaaggatt	ccctatttaa	taaatgggtg
89941	tgggaaaact	ggctagccat	atgcaaaaaa	ctgaaactgg	actccttaca	ccttatacaa
90001	aaattaactc	aagatggatt	aaagacttaa	atgtaagacc	taaaccataa	aaaccctaga
90061	agaaaaccta	ggacattcag	gacataggca	tgggcaaaga	cttcatgtat	aaaacatcaa
90121	aagccatggc	aaacaaaagc	aaaattgaga	aatgggatct	aattaaacta	aagagcttct
90181	gcacagcaaa	agaaactacc	atcagagtga	ataggcaacc	ttcagaacag	gagaaaattt
90241	tttcaatcta	tccatctgac	aaagggctaa	tgtccagaat	ctacaaagaa	cttaaacaaa
90301	tttacaagaa	aacaacccca	tcaaaaagtg	ggcaaaggat	atgaacagac	acttctcaaa
90361	agaagacatt	tatgcagcca	acaacatata	gaaaaaatgc	tcatcatcac	tggtcatatg
90421	agaaatgcaa	atgaaaacca	caatgagata	ccatctcacg	ccagttagaa	tggcgatcat
90481	taaaaagtca	ggaacaaca	gatgctggag	aggatgtgga	gaaataggaa	tgcttttaca
90541	ctgttggtgg	gagtgtaaat	tagttcaacc	attgtggaag	acagtgtggc	tattcctcaa
90601	gaatctagaa	ctagaataac	catttgaccc	agcaatccca	ttactgggta	tatacccaaa
90661	ggattgtata	tcattctata	aagacacatg	cacacgtatg	tttattgcag	cactatccac
90721	aatagcaaa	acttggaaac	cacccaaatg	tccatcaatg	atagactgga	taaaagaaat
90781	atggcacata	tacaccatgg	aatactatgc	agccataaaa	aagatggggt	catgtccttt
90841	gcagggacat	ggtgaaagct	agaaaccatc	attctcagca	aactaacaca	agaagagaaa
90901	accaaacatc	gcatgttctc	actcataagt	aggagttgaa	caatgagaac	acatggacac
90961	agggaggaga	acatcacaca	ctggggcctg	ttgggggggtg	aggggctagg	ggagggatag
91021	cattcggaga	aataccta	gtaggtgtca	ggttgatggg	tgacgcaaac	caccatggca
91081	tgtgtatacc	tatgtaacaa	acctgcacat	tctttacatg	tacccagaaa	cttaaagtat
91141	aattaaaaaa	agaaaaaat	taggatata	agggaaaaat	tttattagtt	gaaaaatttg
91201	gctatctagg	acagccgctt	ccctagaatg	ttttgagtga	aattgagaaa	catatgtgct
91261	ttatgaattg	agcatagcac	agctaaagtg	ttgctaagtc	acttcatttt	atgaaacttg
91321	tgaaaataag	aatggggaac	tttttaaaaa	ttcaggatca	ttgacaaaag	agcttcattt
91381	gaaatagtca	atctatcccc	ttttaaagtt	agggagagat	tgggctgggc	gcggtggctc
91441	acacctgtaa	tccagcact	ttgggaggct	gaggcggggtg	gatcacctga	agtcaggagt
91501	tggagaccag	cctggccaac	atgtagaac	cctgtcttta	ctaaaaatat	aaaggttagc
91561	tgggtgtggt	ggcacatgtc	tgtaatccca	gcaactccgg	aggctgaggc	aggagaattg
91621	cttgaacctg	agagtcaaa	gtttcagaaa	gccaagatca	ccccactgct	ctccagcctg
91681	gctgagggag	ggagactctg	tcttgaaaaa	gaaaaagtta	gggagattgg	gaagccgagg
91741	tgggtggatc	acttgaggcc	aggagtttga	gaccagcctg	gccaacatgg	caaaaccctg
91801	tctgtacaaa	aaatacaaaa	attagctggg	catggtggtg	tgcgcctatg	gttccagctt
91861	tttggtaggc	tgaggcacga	gaattgcttg	aacccaggag	ctggaggttg	cagtgagctg
91921	agatcgatcc	cctccattcc	agcttggggc	gcagagcaag	accctgtgtc	aaaaaaaaag
91981	aaaaataaaa	ataaagttag	ggagagagat	tgtaacactt	aagttaacag	atagtagaca

FIGURE 4-Y

92041	ttgcacttca	ttttcatctc	caggctcttta	gggaggaagg	gcagctggga	aggattgagg
92101	aagggagaag	cgaaggtgag	tggcaggaga	tgagtggaga	ttacagttag	ccaggagggg
92161	ttgtggggaa	gggaggtatg	agaaagaagg	ggcaggtttc	cagaggagct	caggagagaga
92221	cagagggtgg	ggctgtgagt	tttcacacct	gattggctgc	aaagtgttag	aatcaaagtt
92281	acacccacct	ggccaggatg	ctggtcatct	ggctgcatat	gcggagttag	tgatctctgt
92341	gcgcccctgc	tctctctgta	gggacccctg	ttatagtgcc	catcgtgcag	catatttctc
92401	cagataggct	gggacctctg	gtctcaagta	cagggaagg	gtcagcccct	cttagttccc
92461	tccttagatg	ggggtcccaa	ttccaggatg	gccaatgcag	gggcagcgtg	agcagcagca
92521	gtgtgagcct	atggaagtgg	aggatgcctg	tcccgcctga	tggcattcag	attcccagtg
92581	tttgcaaaac	tctgtgctgg	tttgtgactt	ctgattccaa	cctttatatt	agcgtaacaa
92641	ttctcatgtg	gaggggctgc	cagaatgagc	tgagtgtgcg	tggggggagg	gttcaaacca
92701	gcctccatgt	tctgaaatgt	ccccctctgc	accccattgc	tccactgctc	ccacccctag
92761	tctggattaa	gtgtctcctc	tgggtcccca	aaatatccag	ggcatctcat	tacaccaacc
92821	acactgtatg	ataatctgtg	gaactgtctg	ggttcatctc	agccatcaca	gtcggcccct
92881	ggaggcgga	gttatatctt	atctactcct	ctacaccag	ggcctggcac	acagtgtttt
92941	attgaatgaa	gtgggttcca	cgtgtggccc	ccagctcata	gtacacatat	gagagcctgg
93001	tgaaggttg	gctccagtgc	ccctccctgc	ctagtagtca	tctggacaga	ccacacaggg
93061	cagtgggctt	cagatggccc	ctggttaagt	gctggctatt	ctctaggaga	gcaaggtggg
93121	cctgaagggc	tcctcacttt	agcatttgag	tgctatatag	ggaaggccct	gggagcctga
93181	ttcccagag	cggaggagg	ctggggagt	gagcagagta	agggagggga	cttagtgact
93241	gtcaggggca	accaagggcc	atagagcagg	tggagcacca	gacaggtgct	gggaggttaag
93301	atgctgtaac	aacagcccag	gtgacctgat	caactctttg	tcttgtgggc	ctggttagca
93361	agaatgtcct	tgtgcgtcaa	gaggataaat	ctatttcagg	gatgacaaaa	ctgctcctgg
93421	ccctttgagc	cctcaggctt	ggcctggagc	tgggtgtcctc	acagcccac	actctgctgg
93481	ctccttgga	ggagtgtgct	tctgccaggt	gcaagtgtgg	gtgggggaag	gagggggtgt
93541	gccagctgta	gcccagcaaa	tgctggcgcc	ccaggggcta	gtgcaagggtg	cagcaggtga
93601	gatagtggac	agacagacct	tggcccatca	gaaggaagt	ctttctaaca	ggggcaccag
93661	atcagttttg	ttcatacaca	cactcataga	cacactcact	cactgtatta	gtttgactgt
93721	ctataaagaa	atacctgaga	ctggtaattt	ataaaataat	gaggtataat	tggctcatag
93781	ttctgcaggc	tgtacaggaa	gcatggcagc	atctgcttct	gaggaagcct	cagggaactt
93841	tgactcatgg	tgaaggcaaa	gcaggagcag	gcgtcttaca	tgggtgggagc	aggagcaaga
93901	ggcagcgaga	gtgggtagg	gaaggtgcta	cacactttta	aatgcccaga	tctccatgaa
93961	aactctcact	agaacagcac	caaggagatg	gtgctagacc	attcatgaag	gattccccc
94021	catgatccaa	tcacctccca	ccagccccta	cctccaacac	cggggattaa	catttgacat
94081	gagatttggg	cagagacatg	gatgcaaac	atgtcgaca	ccctctgaca	cttacgcca
94141	cacgcccact	cactcagctc	caaccctcta	cctttactgg	ctgggcctcg	gttgataga
94201	atggatgcta	gatatggg	tagggaggt	agaatttcta	aaacggcccc	tgcatgtct
94261	cctccttaat	ctccagatgc	agtgaataag	atgagttatc	actcctgtga	tgatgttatg
94321	gaatatggca	cagttgacct	taagatagg	gggttatttg	taggcctgat	ttaatcccat
94381	gagcccgtaa	aaatagagag	ctttctgagt	gtaggagggg	agggcagaga	gattcaaagc
94441	aacagcacia	tgaccactcc	tggtttttga	gatgaagggg	gctatgtgca	gggattggag
94501	tgaggtcaat	aggagttgag	agtgaacccc	ggtcaaagcc	agcaagcagc	ctgggactcc
94561	agccttggg	gcactagacc	tgaattctgc	caacaaccgg	aatgaacttg	gaagtgaatt
94621	ccttcccaga	aactccagac	aagagtacag	tgtggctaac	atcttgattt	tggcctcttg
94681	ataccctgag	catagagccc	agccaagccc	acccagactt	ctcacctata	gaactgtgag
94741	ctaataaata	gctgttgttt	taagccatca	agtttgtggc	aatttgtttc	gcagcaatag
94801	aaaacaaatc	caSggtcatc	cttgggctcc	atatagcttt	tccaatttcc	tgagatacaa
94861	gctgtgggta	acttccagtt	cttccaagct	caaggggagt	gagccctgag	gagttagcct
94921	atctgtgggt	aaacctatcc	cttgtgccta	cagagtctga	gctcctggcc	cgcagatgct
94981	catatgtgac	aatctggagc	tcaactgaag	accaagggtt	tcgccataat	ggatatcccc
95041	aggaaggaga	attcttttgg	caccagtttg	tgggtactag	cttcctcact	ggggcagaag
95101	aacattccta	ggacaagcct	ggtaggctgt	tggcttaggc	agcctcccag	catttgggct
95161	gtagtgtttt	tttttttgg	tgtgtgtgtg	tggttttttt	ttaaactttc	ttagctgttg
95221	ctcaccttag	atgtcacctg	ttgtctcttg	ttggtaggac	cagacctcag	gcagccttgg
95281	ctgaggcatt	tggaggtgag	gttgcatgga	aataaaaaa	gtgagctgga	aggcatgtgt
95341	gagtgcacac	gaaaccagaa	tctcatgcgt	cccagctgag	gtcagaatgt	gttggggagc
95401	ccaaagtaat	ggctcttcct	ctgggtgtgg	gcattcaaaa	gatgccaaa	ggagaacctc
95461	atcctcaagg	tgaatccgcc	tctgaggagt	gactgacaag	gtggcatccc	tggggcagga
95521	tgcttggctg	agctccattt	gatggaggac	agaccagaga	aagctgaggc	tgggggctcc
95581	cagggctcag	gttgagtttc	ccgaagcagt	ccagtgcctc	acttagcagg	accaggggca
95641	aggggaagg	aaattcctga	aaaggagcca	cctctgtctt	gcaggttaaa	atagccttgt
95701	ccaaagatg	tgataacaca	gggttaggcag	gtgagaacca	gagggccatg	gcaagcactg
95761	ggtgtgtaaa	cacgggagga	gaactgtggt	tcttgaaaac	tcggcagtga	ggatacctgg
95821	ccacaggcca	agaggaagag	agctgcttct	gggtaagccc	tgaacttat	ttggggatca

FIGURE 4-Z

95881	actgatttct	tcaggcctgt	aggtatcaca	ctagtacctg	gagaggagga	gggctctagt
95941	gggtcacagt	tgtcactgag	tccttgctgg	tggctgtggt	tgtggtagaa	taaatactca
96001	ggaagctact	gggcccatgg	cacaaggtag	ggcagggtgt	cagttggttt	ctggcatttg
96061	acactgtggg	atggcaccgt	ggggaggccg	ggttccactg	ggggcagaca	gaaacatgag
96121	gtaggagaag	agtgtgatg	gcctcacctt	aatgctgggt	aatttttctg	cagaagagac
96181	ttgcagtgac	ataatctgat	gtctgtttca	tgaatgagga	aggtagagtc	atcacaaatc
96241	agccttgcaa	ataagcatgg	gcttggtgca	ttttaaacca	accttgggcc	caagagccag
96301	tgtaatcatc	ttttggtgcc	aaggcaacag	gtccagaggg	acctgaattt	ggtgccgata
96361	aatccctctc	cccaaacaga	ggtacatatc	tgtgcctgct	ctagcagcgg	cagtcaggat
96421	ggtacacggc	gggctagagg	agggagcagc	agggctggag	gctgggtgga	gcagccactg
96481	tgccatgggc	cgtgtgactt	tgtgccagcc	ctttcccatc	tctgggaaag	tgtctgtgag
96541	aagtaggctg	atcttgacga	tctccttggc	accagtagg	tctgtgccca	gccatggggc
96601	ctatgatgcc	tgtaagcttg	gatggcggtc	gctagtccac	ggtcctgagc	actgtctcga
96661	ctcctttgta	aaacaaggag	attggattca	ttgagcatcc	ctctctcttc	tggctccaat
96721	gccccaaatg	tctaactgtg	tgaaatgcag	tgtgattgtc	tctctgtgac	cctattcctg
96781	gtcctttctg	agaccgttca	tatgttggga	ctgagagttt	gtgttatctg	aagccagcat
96841	gctgtccaca	ctgtggggaa	agcctgcatg	atttgctatt	gtcctccctt	ctagtgcctt
96901	gtgggttttag	agcccctgcc	atgtggtctg	ccatttgtct	ctctgtctcc	tagggcattt
96961	gcctgcttta	atcttctgtg	ggctgtgcaa	acagccctga	gcagtgcata	gtgaccacag
97021	gtaggggtgt	ctggagggcc	gtgttctatc	tcaggcagac	atgtgtaaga	ggaaggcatg
97081	aataattaga	aacttcttaa	tggtaggggc	agcaccagtg	attaatcata	gcaaaattct
97141	cctgccacRc	acacagcaaa	gagtctttat	cactcaccct	aattagcttc	tgatgtctcc
97201	cacttttcct	tgtccttggc	tcttagaaag	aaaagtttca	agatgattcg	gtcccagttc
97261	ctgtctctgc	aaatgccgcc	acagcaagat	tggaaggggc		

FIGURE 5-A

>2:179587401-179684100

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1      attgagaaaa caaatctacc tatttatgca gcatatttcg ccccttctg attcatgctg
61     attaggaagc atgacagctg gtgacagcag caatacatta caaattgtta cagagaaaaa
121    gcggggccaa atgaaacgtg atggctctatg attcacaatg aaaagtggtg aaggagaggc
181    gagaccatgg catataacaK ggaaataatt agttgaatta gaagagaatg gtaggaacaa
241    caatgattta catgaactct tgagtaattg ttacagacat tgtaagatt cgatctatat
301    ttaaatgggg ttctgaaagt tgttttactt taccttccag actcaggttg gctgtgcttg
361    atacttggcc tacagcatta Ytagcaacaa acgtgtaagt tccttcatct tctggataag
421    ctctcgcaat ttccagttga taagtgtctt caaattgagt cattctaaag aaccgagatg
481    gcttgatttt ctgtcttttg ctgtaccag acacttttag atctgcgaca caaaagaaaa
541    gagatacttc aaccacaaaa atgagtggat ttttacaatt tacctgcaaa cacaatgtta
601    ataatactag tgcctacatt tcatatttga cttaataaca tgatactttt ctctgggcat
661    gccatatcta ctattgttaa atgatttcct ttcacttcca agaaggaaat gtaatgatag
721    aaaaatatag ctgtccttaa ggttgaactg gttgtaatgt ttaaaatgat agaacttcag
781    ttacattctc tttagacatt tgcagtgcac gcagtggag cagagacaag attttgacat
841    attcagtgac tttagaaaaa agcagtcctt aagaagagtc atcaggaaa gtttgactctg
901    ggcttgtagt tgccttctgg gacaggaaat gagaaaaatc tccacttttg gtttgacagaa
961    aaatcaatca aaaagagagc tgagaagatc aagatatgaa agtctaaaa tagatacctt
1021   tgaaggctgt agaaaaaaa tctctatctt tgttactaat gagcaaaagg tttcagtagc
1081   cagtatatat ggcacaaata attgtagaga aaataatttt ttaaataaag agggtagattt
1141   attatgggtat ttgagcatct tgatgacatt tgactctttt cagagtggca gttataagac
1201   attataataa agctagctat ttctatataa ggatttgaac catcttaaaa taatagaaag
1261   taaaaaccca aattacagta aagtagcagg ttattgtgtt gtaataattg tagtgatat
1321   gcactttaat tttagttaac tgtttgaata gccaaaaatc aagccatctt gtttttggag
1381   cacagtcact ataccacttc ttggtctcaa aaccatccaa gatgatcttc taatagtcca
1441   atcatgtagc atttgtctgc attttaatgc caataactgt ctataaaagt tactctctg
1501   cccatgatgg tagatgtgta taaatggcag gttctcctct tagagtaaca aatctgttca
1561   gttccttaga tagtaaggta aagtagaaga tgaaatcctg gccaggcgcg gtgcttcaca
1621   cctgtaatcc cagcactttg ggaggctgag gcgggcagat cacgaggcca ggagttcgag
1681   aacagcctga cgaacgtggt gaaacctagt ctctcctgaa aatacaaaaa ttagccagggt
1741   gtggtggcac acacctataa tcccagctat tcaggaggct caggcaggag aatagcttga
1801   acccgggagg gggaggttgc agtgagccga gatctccagc ctggtgacag agcaagactc
1861   catcaaaata tatacatata aagaaaatga aatcttgaca ctacaacttg tcagctgtgt
1921   ggccttggaa atgtcattta agctttcttg attagtcttt tcatttgtaa aatggcatgc
1981   gtaataattt atgggctatt cggtgcata aattgctgtg agaattaaat gatataacac
2041   acatggaagg gctttataag ccactggcac aagtcagtca ttatagcaag aatatactaac
2101   atcacagatg gaagcaacgt tgtcttcaat aacacgcca aagacagtgc catgtgatat
2161   aacatgaaac accaccccta tttagtttgt gtgaaggggt gtgtgtgtgt gtgtgtgtgt
2221   gtgtgtgtgt gtgtgagatc atcaatggta catcctctta caaggttctc tgcttatttc
2281   tactgacagc ttcttctttt ggtgaactga atgaggcacc aggatacaca ggaactggca
2341   ctggacatga actgcacaca atagtgcagt taacaggtaa aacttttctt gttatggac
2401   ttggtgcttg tggctgtgat gccatgatct gcgttactca tttagcctctc gtgtcttctt
2461   tgaggccatt ctctcccat attactact ctgcaatacc ccacttgtct ctctgactg
2521   ccctggctga gggcctcatc cacgctctcc aggcctattg taataatctc tctccagttc
2581   ctgactgcca gtcttgctc ccacatctgt ccatcccttc tttccctatc acgatatcac
2641   ttctaaaaag taaacctgat catggtacc aggggcttaa aaatcctgca gtgtctccta
2701   aatgtaaaca agatcaattc caaatcttc agcatagaat accaaaaact ttagcacggc
2761   ctttgctgta ttatccagcc ttcttaccba ctcatgatat cactttccaa ctgtacttaa
2821   accacttgct tctagcacat gaagcattat tgcaagtttt gatgacttg agatgttgtt
2881   ttctcatcat aggatgccac tgtgttcaat gatcctacat atttttcaat gctcagttca
2941   cacatctttc tctggctctc tcccagacag agaatgatga gtacgtgggc ctgttaatag
3001   cacttacaac cttgggatat agttgtgtgc atgcatctcc tcacctacat gtcaagctcc
3061   ttaaaggcaa gagcaagatc tgcaccccag cacctagggt aatatctcaa tagcaggga
3121   acaataaatg gtagaattaa aattgcacag atgcttaaat gaataacaga caatatcatt
3181   gttaaactaa ttattcatca ttctgttta tctagctgtc actctgtaag cctcaaatg
3241   acactgactc atcatctgta gaataaacag caaaaaata gcttttttac attttaagat
3301   tctgcttttc caaattactc ctctaccagt aggtggcact ggagaccttc aataggtaac
3361   attttogctg ttagaaacag cacctggttg ctgaggcca cgtttcatgc tcagaaagt
3421   attacaaccc ccaagaacat gggagcttct gaagactccc aatttctttc caatttgtg
3481   aaagcagggc tacacttact taaggcaga cctggccaga ggaagttctg taaatatttt
3541   tagtcccagt ggtatgaaac tatgtgagtt ggcaagtttt tgaaggttca ttctatttaa
3601   tgaatttaat ttctttcata tagaaaacaa atttataaga ggatgctaaa accactatat
3661   gtgtacagat attaccacac ataggaagtt aatgatcttc tcagtttaca aagcctattc

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FIGURE 5-B

3721	aaacctttttt	aaagacattg	gttatgcaga	aaagatagt	aaattttttct	ctttctaccc
3781	caattgggtgt	ctttagagag	gcttcagggtg	tattttctaca	acacttttaaa	ggcaataacta
3841	ccatatgttta	atatgtttata	gacttaaaaag	cactataacca	atatagtttaa	gacaaatattt
3901	actacttttga	atgatgtaca	tatatgttta	tattaaaaaaa	ttcctctaaa	aattaaataa
3961	atggataaaat	tatttagtgt	agctttaaatg	aacttgctttt	taaaatatat	tttgattattt
4021	tgtgttagta	ggatattatc	aaatcagttcc	tcattttatta	atatttagca	tttcttgaac
4081	actatccctc	aaatatacag	tctatgggtat	ttgtccatac	tgcccataca	atactaaaca
4141	ttgatgttta	tataattcct	ctctatggct	ataataaaaat	gaatgtattg	agccccagtt
4201	acctggcagc	catgcctata	ggtgcttttac	atacattata	tcttttaatt	atgctcataa
4261	aatcaaatag	gtctatttaga	tttctagatc	accatctcca	ttcctgagga	ggaaataatt
4321	gggtcagaag	accaactgaa	gtactaacct	ggtgagaaaa	ataaatcttg	acaaggtaga
4381	gattggatta	taaaactaatg	ggagaagcat	aataaacaaa	acaatacaac	tttgcaattt
4441	cttttgcatc	agcctaataa	gagggtctggg	agatgcccaa	gctttgagag	tttccctttg
4501	gctgggaaac	tctcaaataa	ttgtgattat	agacaatcag	ttatgacttg	aagtggttcc
4561	acatatattg	tctcattcta	ccaagatcag	attcctggga	tgaggaaatt	ggctgggtgg
4621	acttgagaag	catgccccaa	ttaaaaatgg	tagcagctaa	ctctgattga	ttactgtatg
4681	atgagcactg	tgctatgtgc	tgacttgagt	tacctaactt	aactctgata	ataactttaa
4741	gtgtttggta	acagtcattt	aaccatcatt	aattagtcca	gtcaacaatt	acttatggag
4801	tatctactat	gtatcagggtg	atattctggg	gcaaccatcc	actcttgttt	tcatagagct
4861	taccttctag	cagggtactat	ttttcagatg	ccaaattcta	ggcactaaaa	cggaaattcct
4921	agcctcataa	aatatatttt	ctaggattga	atgcaatcat	atactcaatg	tattcatgac
4981	agaaggagaa	cgagagacat	gactatatatt	gaaggcaaga	ttcaaattca	gcacttttga
5041	caatgaagcc	ccgacttttg	accactatag	gatattgtct	tccaaaggat	acctttcaca
5101	caagcattgt	ccatagactg	aataatgtct	tatataaatg	tattattctt	ttgaattata
5161	tgtagatgct	attataatct	aataatttta	gttttgtcat	tgtattttat	caatgaagaa
5221	attaaagtgc	agctacaatc	ataaagggaa	catgaccttt	tttaatatata	gtgaaaaaca
5281	ctaatttttt	tattgtgata	aaSaacacat	aacataacat	aaacaacat	tattaagggc
5341	acaaaatagt	gaaaaacact	tatctaattc	ttaatttaat	aattgaaata	agttttctgt
5401	tagattttcca	ttaagcttca	aattatgcat	gagagatgtt	tgtgatggag	gagaagctga
5461	cagaatgttt	ttcccatgta	attattttgt	agtattggca	atgacacctt	ttgttcttaa
5521	acctacctgt	tccagaaacc	cggcattgaa	aacgggctgg	ctgcccttca	gaagtgcag
5581	tgctcgaag	cgggtgtgat	atggcaggtg	gataaacagg	catttctctg	tcaggagaca
5641	caacttctgg	aactaaagaa	agaaaccaca	agattttgtca	tgattaagtc	accatagaga
5701	cctcacagaa	gggagcatgt	aggtttatct	taattttattt	cactgcagag	tgctttcaaa
5761	gttgggtagc	aatctacttt	tatgagctcc	aaattgtatt	tttaaattgca	ctgggaaagg
5821	acaaaagcct	gcttcttagg	ttttattttc	agctggaagt	agcgaggcat	tcctaccttc
5881	cactgagagt	gaagctgatg	ttgtggcaac	accatagtca	ttcttggcct	cacagggtata
5941	gactgccgca	tcctctggga	aggcttcaat	tagcaaaaagc	gtgtatttct	gcccatcatg
6001	aagaaatttg	cacttgaagc	cagtggaaag	cagctgctct	tccttgtacc	aggaaatttt
6061	gggctgtggt	cttccggata	tcaYggcaca	gaagcgggca	ggcttgccag	actgcacagt
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6241	tgctggctag	ttatacatcc	agagacaaaa	ttttggaatt	gtgggtatttt	tacttgccctc
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6361	cagagggaat	agcttcagaa	agatattttt	gatattttgg	gggcatgctg	agagtgcoga
6421	gttaacctga	ttatcccagt	ttctgtttgt	ggtgggggct	tagcgatgga	cacctgaatg
6481	aattatacaa	taacttccgt	gtgctaccta	tttttaaaat	tcatttggac	aaatcatgtg
6541	gtgaagaggc	tcatatcatt	ccagtttgtt	tgttttgcaa	gtatttgtgt	ttatgtcata
6601	gtcattttgt	tatgtaccag	tgccagtaaa	atgcaatcag	taagtattga	atgaatgact
6661	gaattaacac	tatttcagat	ctagttaaat	gccattaggt	agacttaaca	aattcagctt
6721	tcctgttttg	ctaactaaag	catatttcta	gtgctgtgat	gagtggggg	acctggttag
6781	ttcatggaac	ccagaaatta	gaagaaatga	cttctgtgag	gctggtttct	gacatatca
6841	tagaaaagat	ctttactttt	ctgtgcctca	gtttctccWc	tactaataca	gagataataa
6901	gaactggatg	ccatgaccat	ttggctctct	aggaacctag	ggaatgctgg	cgatatgggt
6961	catcttttgt	aatcttgaga	ttacccctgg	agttcctgca	tctgcctcag	gggtatttta
7021	ttcaaagaga	tatggcctag	gatgagaata	ggaagggagg	ttccattttt	ctcttgcatc
7081	taggttagac	tcaaaaacaag	gtcagcttga	gattcagcct	taagatttct	aatgaggaga
7141	gcagagggtt	aacagcactt	ccctggggac	tgctcagagg	ctcctcagga	gtgcttggta
7201	gcatgtggaa	ttcctgtcc	aaagtaagag	cccctgttct	tagagcttgg	ggtagagagg
7261	atcgagttcc	acattgcctg	aggctctcta	ggccttccag	ggctcctcaa	aggacttttg
7321	agttctccca	ggcactccat	atcagaggct	ggaacacccc	ctttcacttg	gtagtgtctg
7381	taggacttga	gcagttcagg	ccagaggcag	agaactaaaa	tagtttaaca	gcgaatctag
7441	aagctcatct	ggggatatatg	aaaatggaca	cccaatgggt	gttcaaatagt	tttgagcaac
7501	cagatgagga	tctggccatc	aggtgctttc	tgaataaac	ttctcaatag	gtcttttaac

FIGURE 5-C

7561	agctgccctc	ccttttccat	agatataatg	tgaaaaaaaaa	tgtagctgga	accacatgaa
7621	taccataggt	tcttttagaaa	tttctctcaa	gttacaagaa	tttagtgact	taaacaggag
7681	gattattttct	gatggatcca	caaaatatgc	tgaaatctgt	ccctacatac	cattgacata
7741	gagagtgaca	gaactcctgt	tccttcctgc	cacaaagggtg	tattctcctg	catcgctctg
7801	tctgggtctca	gagataaaca	ttcgggtggat	tcttctYtcc	actacatatt	tgtgtcggttc
7861	ttgaacttgg	aaattgattt	caatgccatc	tttataccag	tgggcatcaa	catcgtcttc
7921	attgacctca	aattcaacaa	cagcacgctg	tttctcaatg	acctgttgat	ggaacaacat
7981	aaaaMaacaa	caacaacaac	aaaaacttga	agctctgggt	tcctcccagt	taatcaattt
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8341	aactttgtgg	gctaggtagg	aattattatc	ctcattttta	gagtgagaac	actgaggttc
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8581	gacacttatg	aggacaagct	ctgtaaagtc	agccgacagc	aagagtggcc	agcatccttg
8641	ccaggaaccc	agcacggctt	ggacagggtt	ttctcttaga	cttcacagaa	agtatttcta
8701	gccactaagt	tccttgacac	ttgcctctcc	acagatagaa	accttctgag	aaaatatcac
8761	cttgttctaa	atttccttaa	ttctaattga	tgtgtgaacc	tcacgattta	catttttaatt
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8941	gtgactaaat	tgaggtcagc	ataagagagt	ctaagccaag	taagaatgag	ctgatttaat
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9061	ttatggacta	ctgatgattt	ttcaaaacat	ttagtatgta	gacaatacct	gaacctcctt
9121	tttaataact	cggatgcgaa	catctctgcc	ttctacaaaag	agttttgcag	ttgacaggtt
9181	gcctcctgcc	accactgtgt	acttcccagc	atcagacatc	cgggtggatg	ggatcagaag
9241	gcggtggaca	tatttctcct	tctgaatcct	tattctatgg	atgaaatgga	aattcgagtt
9301	taccgtatgg	tgatttcagag	gaaactggga	atYactggaa	tgtagcaaga	caaaacaact
9361	gacctgtctg	tgatctgcag	ttcctggtea	tctttcatcc	actgtacagt	gatgtcaggt
9421	tcagaaactt	cacattcaaa	catggctcgc	ttcttctcca	gtaccttaat	gtccttaatg
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9541	acagctttat	tgagatataa	ttcacatact	gtacaatcca	ccaattttaa	gtatacaatt
9601	caatgaattt	ccatgtattc	atcattgtgt	agccatcacc	ataatttttag	aacatttctca
9661	ttccccaaga	agaaatcatg	taacccttag	ccatcacccc	aaggactttt	ctattgtctc
9721	ccctgtagac	ctaagcaacc	accaatctac	atctctatag	atttgtgtat	cttggacatt
9781	tcataataat	ggaatcatac	aatatgtggt	ctttgtatgg	tctctggctt	ctttcactta
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10081	agcatcccca	aagtgaacat	tcctgatgtt	cagtgaagtgt	gtgagctttt	tggttctcat
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10381	cgtctgttga	ggagattaca	gttttagagat	ataagctttg	ataccttcca	tgtactatac
10441	aggacagtgc	caactcacag	aggaacagaa	agatcaagtg	atagacactg	aggcatcttt
10501	ccaggtagcc	tttcaatgct	actctaactg	gaacatttta	tccaggtgga	gatactagtg
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10801	gcaggatctc	attgtatttc	ccagcctggt	ctcaaaatct	tgatctcaag	tgatttctct
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10921	gattttttgag	tggtcagcaa	agtgtaggat	atagaatatc	aatgaatcta	ctgaatatatt
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11041	gggtggcact	gacttgggtc	ttgccacaga	caaagtgtga	ttctgcccag	tcctctgtgc
11101	tgggtgttcat	gatgatcagc	tgtatggagt	ttccctgcac	aactatcttg	aacttttcac
11161	tcactctcaat	ttccacacca	ttcttcagcc	acatggaagg	gacattgaag	tgggacacct
11221	cacactcaaa	agaggcagtt	ttggtctcag	gcacctcgat	atttttcatg	gtttttgtaa
11281	tatgtaatgc	ttggtaaaat	caaagagcac	ttcagttaat	acaatttggt	taaaaagtag
11341	atgaaaccaa	acaaatagat	acatgggggt	cattaaggaa	agggctgtag	ggggctgcct

FIGURE 5-D

11401	gatacttact	ctccacaaac	agttttgctt	tgcattccaa	ttgcccgacc	acagctgtgt
11461	attccccagc	atctgagggg	gagatgttct	gcagcatcag	cttgtggact	ttcctttctg
11521	agaccagtct	gtgtttgtca	cttggttaa	tttccacaYt	cttatggaac	cattttactg
11581	gaacagtgtc	atgggaaaca	ctaacttcaa	aggcaacagt	ggcattttcc	aaggctgtca
11641	catccttttg	ctttttaatg	atcttgacag	ctaagaggaa	aattggagca	attcagtgat
11701	agggttaact	taatggtaac	catgggctga	ctgcttgaaa	agtgtttcta	aatcaactta
11761	ctctccacgt	gcagtctggc	actggctcca	agccttccaa	gcctgaagcc	ataaacagac
11821	tcataccagc	tggcacagtt	tttaatcctc	agagagttaa	ttgttccttt	gacagagata
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11941	ttagggtgtg	taagctcgac	agtgaataca	gcatacctgt	tttctgtcac	tgtgaggttc
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12061	gatgacatca	tcaaggaaaa	gaagctctga	acaagatcat	tgcttactca	cctgcacaaa
12121	gaatggctac	caaacatttt	acagttatgc	agcacctctg	ttttaaaaaa	cacctgagat
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12421	caggaagggt	tagaggatct	agaatgactt	tatgaaatga	aaatttatgg	taYccaaaat
12481	ggccatatcg	tttgtctttt	aaaacgataa	cgatcaagat	tgtaatatga	tttgaaaagg
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12601	cttgtaggta	tattctccaa	tgctatctaa	tttgggtggc	gcaatgataa	gtctcctttt
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12721	ccatttcgct	ttggaatctg	ggttggcaac	ttcacattca	aacacagctt	cctgggattc
12781	agctacggtc	tgatctgtga	gtggcttggg	gatggcccca	cctttggaac	aagagatgta
12841	cagtatgagt	cctttaaaca	tattcacaca	atgggaaaaW	ctttgcagaa	gtaaatataa
12901	aatatacaat	ttaagaacat	gattttgaaa	tcatagaaat	tctatgattg	tttttaccca
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13141	tacttgggtct	tttaatgatt	atctcctggg	aatctgatat	tttgactaca	taaaaatttg
13201	ctaaacaaaa	tgtacgagtc	atcaatgttt	ctactacatt	gaggatttct	atatattaaa
13261	aatcactgtg	ttggcaaatg	tgcgccattc	tatgaagttt	cacoccatgg	cctccactct
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13501	agttcatagt	ttattcctgt	ttccacacat	ttaaaacatg	taatttatat	taaatgtata
13561	aaaatgctga	atctgaaatt	ttgttttaca	agtcctttca	tggctYgatc	tctgagataa
13621	tcttataacg	taagtaagta	taaaccatga	aactttcata	ccaaataaga	caaatcatta
13681	ccatatgact	tgcttcaata	ctagatgtaa	tggacaacac	gatctgaatg	taacatctca
13741	actcctcaaa	atttaaaactg	taatgaacca	aacaaattaa	tgatgacttc	tagttttttc
13801	tggcaattga	tttacatttt	ttattcttca	ttgtaaagct	aagaaattct	actgaatgat
13861	ggctctattt	ctacatgata	tcataagaaa	tacagttaca	ttagactgta	ttttgaaat
13921	atttattgat	ttcattaaaa	agtaggaaga	aaataaaagg	cacaaaggct	aaagaagcaa
13981	gaatggctaa	aaaaggaaat	aattccttag	agtaagggaag	tttaataaaa	gctcaatata
14041	gcaaacacca	attgattatc	tgctatttgc	aatatatttg	aatatacaaa	tagaattcca
14101	gatttcaggc	gtttatacac	tgatattgaa	agaggaaatg	gggaataaga	caagtgcata
14161	ataaacacta	ggaaagaggc	acataataag	tgatcctggg	gttggatgag	gaagagatca
14221	tatacaaatg	gagagattaa	ggaaggttta	atggagaagg	tgacgtttga	ggtaggccta
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14341	acagcataag	cagaggcatg	gaagtgggaa	actgaaagga	attttggggg	aatgaataaa
14401	taattttctta	aaataacaat	cactcctcgt	aagaatttag	gttaataaat	ataccaacct
14461	gccacagtaa	gttttccaga	tgctatattt	tctccgcgt	aaaatgtgta	ttttccttca
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14761	gggaaagtag	aatgcttaaa	gtaattatta	gataggtaga	ataatcctta	ctttctacag
14821	agagattaca	gttggtttca	actctgccaa	ctatcagctt	Rtaaggctct	tcgtctgaag
14881	catgagttcg	gttaatgact	agtcgctgtt	tagtaccttt	cacaatggcc	tgtacacggt
14941	catcaggctt	gatttgttca	tcatttaagt	accacttaac	agaagtcaca	tcagggactg
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15061	ttatcacgtc	cacacctgca	aaatcataca	cacacaagat	gaatgaattt	tgttgaaatt
15121	gtctgtctct	tgaagttctt	tatgttgcct	aatagtgtaa	acataaaatt	ttataattag
15181	gactcactat	agacagagac	acgcccactg	gtggagaggc	caagggtctg	aatgggtgaa

FIGURE 5-E

15241	gagtaatttc	cagcatcttc	cttagtcatg	tcttcaatga	gcagcatatg	agattgtttg
15301	tctatcacaa	tgtgaacctt	gtcactgggc	tgcacttctt	ggcgtctttt	catccagacg
15361	ccttccacac	tttccaagga	gactttaact	tcaagctgaa	caatgtcacc	ctcacagact
15421	ttttggtcac	taagtccctg	taggata'gca	atggggcggg	ctgtgaaata	tggggagaaa
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15541	gaatgggagg	acttacgttt	catctttaat	ttacaggttg	tctttttccc	gtcgatgaca
15601	aagctgtatt	ctccctggtc	ctccttggtt	acatccctga	ccgtgaggtt	ctgacgtcca
15661	cgacgagatg	taattgtata	tttgccattg	gatttaagct	ccacatcatt	atgataccat
15721	tttccttcta	tattttctgg	ggatacaatg	cactctaatt	ctcctgaata	tgattctgga
15781	acttctatgt	cctgaagttc	tttcacaaac	tcaacaactg	cacctgaagt	gtataacaga
15841	aagataaatc	aatttttttg	gagaggtatg	catctagact	taggatagag	atgatgtctt
15901	gtatgtcttt	tatctccccc	atactatcag	gtgtattctt	aatatctacc	cgctgatggg
15961	ctgagagata	aattttcaat	aagaagcagt	tattttatgt	taatttttaa	atatttttga
16021	aagtaaagaa	ttatgcttca	ataaaaaact	taaaagctaa	aatcaagat	aatactactt
16081	taaaaaatcc	aaatgggtcaa	attgttaaca	ttcttaatta	cgaacataaa	tttatgattc
16141	tggctatgaa	acttatagtc	aattttccaa	taattgtttc	atgaaagaaa	aattgcatag
16201	ctaattttac	caatgcttaa	gggtgacttt	agagcttagg	taaacaatga	aatccttcgt
16261	tggtgaatac	cttcaacaat	aagttagtca	gtcgttttga	cattttcatc	ttccacaagt
16321	acacagctgt	aatcttcagc	atcagacgta	tcaatgggtca	gtatggagag	gaagtgaacc
16381	tttctgtcag	agtgcacctt	gtatttatct	ccctcatgaa	cctccatacc	atctttatac
16441	catcttcaatt	tgacaaatgg	ttctgaagtt	tcacattcaa	agggtgccat	agtgtctttt
16501	tccttagcaa	caacatcttg	taattcctgt	gtgaaagtga	tcaattgctt	ggtacaaga
16561	aaaaggtggg	ggaaaaagg	gagagcacat	tatattaaat	taaattctca	acctgaggaa
16621	tggggaaaga	aaataaaagt	aaacacactc	atggatattc	ttgaatacaa	agacaggtcc
16681	atcaaaggaa	agacatgcaa	attaccttgg	acaagtaaga	atgcgtgact	ggaggtttct
16741	ccagctatgt	tgatggcttt	taccatgatg	ctggcagagt	cctcagcagt	cacatctctt
16801	cgaccaattt	cacaaacatt	gtcttcgggc	cagtaccagt	agatccggtc	agaccgttca
16861	attttgacac	catttttgta	ccattcacat	tgggggtctg	gtttccccc	gactctgacc
16921	cggaagtgtg	catcagatcc	ttggcccact	gtttggctct	ggattctttc	gaagattttt
16981	ggagcctcca	tactaggact	tagttcaatc	ttgtcagggt	taaaagttgg	aatcgtgatt
17041	ttgccttctt	cggaagagc	ttcttttttc	tcttcagtta	actcttttgt	ccagtggaga
17101	agtttctctt	ttgtcttctt	gaggagtctc	tcataaggatt	catccttctt	tcgacagtgt
17161	agctccacag	cggtaatggc	ttcataatag	ccctcttctg	ttctgctgtt	gaattttactg
17221	cgcagctctt	ccgactcttc	aggcactttt	tcattgggtaa	ttctttcagc	ccttttcaac
17281	ttcacaactt	ctttgggtttc	agtgggtgtc	acaggtctat	ccactttttg	tacttcaaac
17341	tgaagctttc	ctgggttcatt	tacgtgaaac	tcaggccttg	gttcaggagc	tctcctaagg
17401	acagacctaa	aatcttccct	ctgttgaaatc	tcaagcttca	ctttatgctc	tatcacacct
17461	tcaggatttt	ccgcggtgac	cttcacttca	cctgtgtcat	atgatttgca	gtccacgatg
17521	tccaggtaat	ggataccatc	atagcgaact	ctgaaccttt	tgcttttgcg	gatgagctgt
17581	ccattgaggt	accagttgac	tttgggctga	gggtagcctg	ttaccctgca	gcggaacctt
17641	gcagcttccc	cttcaagtac	tctaactggc	tctgggtaca	agacaatgtc	tggcttttgc
17701	ttttctttct	gatctgttgt	tacacctgta	agtgcacctt	catgagccat	tctcttaaat
17761	tcttcaattc	tctgtaagcc	tttcttcccc	tcaggcaatt	gggattcttc	cacaagactt
17821	ttctcatctt	taacaataag	ggtagcagat	gtgtgatctg	ttccatattt	gttagtggct
17881	ctgcaagtaa	tgataccact	gtctctagaa	tatgcaacgc	cataatcaag	gctgcagtac
17941	ccaaattcat	tgatcatacg	gagcctgttg	gctgcttcaa	gtggctttcc	atcatggagc
18001	cactccacca	ccatcggttg	gtcaccaatg	gggtgttagcc	tgcatcctaa	gtgggcaggc
18061	ccaaagcgct	taagtcttaa	ggaagtgagt	tttttcttga	aaaatggttt	ctgtgttttc
18121	tctttgtcat	agagatcacc	ttcttcccat	tgctcttggc	catatcgcaa	atggaggggc
18181	tccagttctg	gggctgcaat	ctccttttgt	ctatatgtcc	cccgtgggat	gattaacttt
18241	ctctctggct	caggctctgc	aaactcaact	tcaacattta	ctttgcatct	tgtagtgtct
18301	ctgccagctt	tattaatagc	agtcgcagta	taccaggcag	aatcttggct	gacagtggaa
18361	tcgattttta	gggcagcttc	tcccttggtt	ccttcaattc	tataaaaagt	tgggggaggg
18421	aataatcaat	atagtggtat	agcttccctg	gttattggat	ttgtataatg	agcttagctt
18481	tattatttcc	atacttacct	gattttggga	tatttatgag	gcacaatgat	gtcactgttt
18541	ttcaaccata	caatgtcagg	gttgggttta	cccgtagctc	tgactttcat	ttcaagtcgg
18601	gaaccttctt	ttatatggac	atttttcagt	ttttctacaa	acatcggttt	tacctgatgt
18661	tccacagctg	aaagagaaag	gtcatgatgt	agagggagta	aggctgaaat	acctgtttat
18721	aacccaagtg	ataagaaaat	tcatttatgt	ttattttatc	tcattttacc	ttccacagtt
18781	aaaatcactg	aaattgaaga	tctgcctgcc	ctgttttggg	caaccacagt	ccattcccca
18841	gaatcactgt	gtgtggcagg	gacaataaatt	agtattgag	taccatcttc	tttaatgact
18901	actttatggg	tatagtcatt	gacaatttgc	tggcctgtga	aaatatgttt	aaaagaaagt
18961	agatttttaa	atagttttta	aaaattgtta	gatgcataca	taagcttggt	tttgtgtttt
19021	tatgattcat	gagcaaaaac	ttatcacgct	taccatcatg	aaaccagaac	gtctctggca

FIGURE 5-F

19081	taggtctacc	aacaaccttt	aagtcaaate	tggcagtttg	cccttctaaa	catttgaaag
19141	aaacagggtt	taacacaaag	actggtttat	atagtctctc	aagttgtgac	tcatctgtct
19201	cctccagcct	acgtccaggg	gacattcttg	caggggacat	ccgtgcagga	gacatccttg
19261	caggtgacat	ccgtgcagga	gacatgcgta	taggagacct	gctcactgaa	cgtagagaga
19321	gagatctgca	aaacaaagac	acacaatact	ttcgtgaggc	ataaagaaaa	ctcagcaaaa
19381	caaacttcat	tttgtcttat	tcattattca	tgttatttta	gaatttactt	cttgcacgta
19441	ttagaaggca	cctcaaactc	attcagatct	aaaatagaat	atattattgt	tgccccaca
19501	actatgtttt	tcctatatcc	tcaatttttag	ctggtagtca	ttcagtatat	ccagggtacc
19561	aggctcaaaa	atcttggaa	aatcctcaat	actctctttt	ccttaccact	tggtattaat
19621	cagtcactag	acttttttga	tttaactact	aaaacatcct	aataaatgtt	ggttggataa
19681	gtaaaccaat	gaatacattt	atggaaaaat	aaaaaataca	cattctttat	ctcagaggag
19741	gaaaacatag	aaatgaattt	ggaaacaaaa	caaagcaaaa	caagactcca	tctacacatt
19801	gcagccagac	tgacttggag	tttgaatgct	ggcaccaccg	cttacagggt	ggatgaatta
19861	agacaatttt	catagattcc	cagggcctca	gtgttcctat	ttccaaacca	ataatagtca
19921	tctttttatt	gcagggtctg	tgtataaatt	tacatatgta	aaaatcaggt	gtcaataaag
19981	agctattgtg	atattagcta	tagcactagg	aaaataaaca	gtatgttaca	ctgatgaaaa
20041	ttctttgctc	atctttacaca	gggcaagaa	ataaaaaact	ctggcaattg	ttgtgtgtgc
20101	caatggtaag	tttctgtgcc	attttagccc	tcgattttct	tcttacacaa	tagcaatttg
20161	ctactatttg	atgttttgaa	aacaatttac	atactaaata	acccaaatta	ttacaagtct
20221	tacctgattc	tgctcactgg	ctctagtgtg	ggaatgtaag	tcggagctcc	aagtgggtgca
20281	gcaggctcca	catacaattt	ccctgagcaa	attgcatttc	ctttaatatt	gctggcaaat
20341	gcagtgtaga	ttccttcatc	ttctggaaga	acaacaggtg	tacgcagact	agctctgcc
20401	tcttgtagaa	agtccatttg	gtatctttct	ccatgtttga	tgcgcttgcc	atctttgtac
20461	caagcaatct	gcaaagaata	ccatgcatgt	atgaataaaa	tttacatcaa	atagttatat
20521	tttaaccaat	ttgtatcttt	actgtggcaa	ggagctatga	taaatgttta	tattttacct
20581	ttggtaattg	atatccagac	atcttgcatt	gaaaagtgc	acccatcccc	tcaagaattc
20641	tataattctt	gattcttRaa	tcaaatcctg	attcaacagc	ttcagattca	agctctgcaa
20701	ctgccatctt	ttcttctcca	tcttcttcaa	gaagtctctc	taatgtagtc	tttattattc
20761	tatattcaat	ttctttaata	agtctctctt	caaaggaaga	aatatggaat	tcctatgcaa
20821	aaagattatg	gtctgttaaa	aatacatatc	cttactgata	taaattattt	aaggagatgt
20881	atctgagcta	gactgttgaa	gttttttagt	gggagaagaa	tctagaggac	tttttggttt
20941	gtttgtttta	atctgcatta	tgtctatctt	tcccagtgaa	tgttgtggca	ttgtgtgtag
21001	aaaggtattc	caaaagcagg	agtttagattt	gggttagagg	ttacattagc	ttatcacaca
21061	gatgaagaga	tcttggcatg	aatgaactca	gctgtgctaa	tattgggtgt	ttccttaata
21121	tattataagc	cctattttta	aagtcacatt	tatggcctat	atgtaatctc	tatttctaaa
21181	ctcacagggt	caacatacca	tgaagattaa	ggaaacttag	caacagtgaa	cttggacctt
21241	ctaattcctg	tctaaccocg	agctcatcac	ttgaaaatga	aaatatcaaa	taaaagaagg
21301	aaagtataat	ttatgaaatt	gtttgtgttg	tcattacttt	tatactcacc	tgatcttcta
21361	cataagttct	gaccactaca	gtatcttttg	ccattttctt	cctaattaag	gctgttctt
21421	tttcatactc	tttttcatat	tcagagtata	caaatccagg	tgctgtttct	ccaactttag
21481	gttcttgaac	aaatgcagtc	acttgtgtct	gataaagcat	ttcttgcctg	gacttcatca
21541	gtaactcata	atcagctaag	agttgaagac	atcagttaat	ttttaatgct	cttattagaa
21601	aacagtcata	ccactatgca	ttcaggtaaa	ctctacactg	gggaaagttg	ataaccaaaa
21661	accaaatttt	ccaaatatct	actattgaag	tgctcaatat	tttctagatg	gaatttggaa
21721	accaaactaa	cactaacaaa	tccaaccagc	cattacaatt	gtagaaagaa	ttttatatta
21781	gcagtcagtt	ttgggggat	ctaccacgga	ggacttccta	atttgctgtg	tgtcttttaa
21841	caatttcatt	accttcctga	atattgagtg	ctttatctgc	taaatgaaga	taatattgta
21901	atttcctcta	agggatactg	tgtaggtcaa	gtgaaacaga	gtgtgagcca	gttactgta
21961	aatgtgaaca	gtctagcatg	aaagctgtta	catttgtttt	caagttataa	acattgaaaa
22021	tcctgacttc	caggttttct	ttaagatatc	aggagctcta	gcaacactga	gcctggtaac
22081	agcctgggtc	atgcctggca	acaacacagc	tactgtctct	tgaggcagg	gcactactc
22141	tccagtttgc	tactgttttc	attgagctca	ctgttacctg	cctgggcctg	gaaggcaacY
22201	ggattttagaa	tctctgcatt	ttcagaggca	tgatatgcct	agaaacaaat	acaacaaaaa
22261	gaaactattg	ctagaacctc	agaagtttaa	tgacagtata	gtttttgagg	ccatgtgggtc
22321	taaaacattt	tccatacaac	tgaggcaaag	acactggggc	aaagtatcag	aaccagtaag
22381	tggaacacag	tttttcagca	aacggacagc	actgctatct	ccttgatttt	cagtctcttat
22441	catgacacata	gaaactggag	ttgcacttac	cttcttcaag	caaggaagca	gatgcagaag
22501	tttctccatg	cttattgcga	acaacaatag	tgtattctcc	agcatcatca	gcaaaagtca
22561	tagaaatcac	cagcttgcac	tcaccggttt	gtttgttgta	actcactttg	tatctttatg
22621	taaatgtaca	aaatttaaaa	atcagttata	aacaactctt	ctgtgggtaa	aataattgga
22681	cttatctgtg	agtggatctg	tggtaataaa	ttcaatgacc	ctaaacatat	gctaagctc
22741	cacaatagat	tataagattg	ctgaaaattg	agaaaaatgc	aagaacatga	gtaattaggg
22801	ccaaataagt	taaaaatttc	atttttaaaga	atattttattg	ctagaatcag	tcatgaaatt
22861	aagtgggttt	cagtgtttat	gttagcaaat	gatcaggtca	cttaacaac	aggtattttc

FIGURE 5-G

22921	tctttgttgc	ttatttttct	cattatttca	ttcagagatc	aaatgaataa	ttaaaacaat
22981	aaattccttc	aaatatttca	gtatttaactc	tctggtacat	tatattttatt	attatgaagg
23041	tacggcacct	acatttttag	attaccagggt	tgctcttttt	atcttaaatt	gcaaaatatt
23101	cagagctaaa	ttttatattg	aattgaagaa	aaattactag	catagattttt	tgtgcataac
23161	tagcttttct	cttcattaca	tggctattct	tctatctttt	agtcacttag	ttattacatg
23221	tttttattga	aaattgtctc	aaatcttttc	tggaagtgtg	tgtgtgtgtg	tgtgtgtgtg
23281	ggtgtgtttg	tgtgaaaatc	catattttct	ctactttcac	aaactcaatg	aattaaacta
23341	taatgtaaag	aaatatatct	tccatccact	tttgtcacat	agcttttattt	cttaggaaga
23401	ctttgcacaa	aaaaaatgta	aaaatacctc	aaaacaaact	aagaaggctc	cacaatgaaa
23461	gagcctatgc	tcagggtcgg	tggggtgagt	aaattctact	ctaggcttca	tgcacgtatt
23521	atacaagtca	cagagaactc	tatatcagc	catcaaaata	cctgtatcca	gtggttagag
23581	gaacaccaga	ttttttccag	tatacatggg	gctttgggtt	gccgccaact	tggcatccaa
23641	acaccacgct	cccaccttcc	accagtttct	ggaccactgg	ttttgtaata	aagtaaggcg
23701	cggcagggttc	tccaggccct	gcttgttctt	ctgtgaggct	agtatcagtc	ataaccacat
23761	ctcttgactc	aacaaagctg	gaaagagaat	tcccctcata	ttagcttccg	ggttgcaatt
23821	tgccaatact	ggtggggctg	aaagtcaaaa	tggtactaga	acagctacta	attagcaaaa
23881	tattttaccg	tttctcttct	gtagtaaat	tctcagtcac	ggctgtgggt	tcttttcaa
23941	attcttctga	cactaaaaga	agacaaaagt	ttctcattga	gatgagatgt	ttagtgaccc
24001	ctgcttagca	ctgacagtta	aattgaccat	ataatctccc	cccaagttcc	aaaaagggac
24061	atcattttcaa	ggtgcacaga	aacctatattg	tggaaaagag	tgtcagatga	aagtgtatggc
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24181	gctgcagggt	ccagcctcat	tcacagcaact	gcaagtaaat	cgcccgctgt	cttccgcaaa
24241	tgcttcgcga	atcataagac	gagcaattcc	actctggaag	gttatctgga	agtcaatgga
24301	actttcgatt	tggtagtctt	ccctgtacca	tgtcactgtc	ggggatgggt	atccagagat
24361	gtggcactcc	aaggtgacag	attcaccttc	tatgacagtc	acatttttta	agccctgaag
24421	agaggagaaa	aaataaataa	tgatacgtgt	gcatattcat	taatcacttc	tgttttgtaa
24481	caaatgtaga	gtttgaactt	atgcatttca	actgccacaa	aatgKccttt	tactcaggac
24541	tccagaaata	gtagtagaga	aactaatatt	tatataatat	actaatatat	tagtaaagag
24601	ctgtaaggct	caatagcaaa	tgctacctat	tcaacaaagc	tttgccatgg	tatcaccaac
24661	tggaatgaat	ctatgcctcc	catggattct	ccttctgttg	tgatgtttat	caccttatat
24721	attttattat	gcttgtttgt	gtacatttct	tctgatggca	aagaaaatat	ttcaaagagg
24781	gatggattgg	tctttatgtc	tgcacagctc	ctgcaataat	gccttctgca	tattagaagc
24841	tcattaaatc	ttttgaatcc	atgaatgatg	taccacatag	aattcccttc	ttccttgcca
24901	aatatggtca	aatatggtct	tccagacca	atacggctct	aaaatgagca	tctgtaagct
24961	cactaatgtc	atttttgtat	taatttgaga	aactgatctt	tgcaaacgtg	tattaaaatg
25021	atttgaggag	atatgaatag	ggtccagcat	tatcaacttc	tttactcacc	gagaccaaa
25081	ttgggtggag	aacaggaatt	tcaacaggtg	ctggactctt	tgctgtttct	gttaccatga
25141	tttttacaaa	ttatattaca	aaatgctcat	gaaattaagg	gaaatctcat	aaactcttag
25201	ctcatgcaac	attatataat	tataaaaaa	taaaaataat	tataaaaaa	atttgagaaa
25261	atgatctctg	accataacta	tgctccataa	aaatcaagtc	ttagtatggc	aaaggagaaa
25321	ggcaagactc	cactggctac	ttttcagtac	aaactagcca	accacctggc	ctctgtcaat
25381	gggagtggac	catgtaacag	cgggtaacca	gtgaccaacc	ttggcttcgc	gtccgtgcag
25441	tactttcaaag	cgctcttcac	ggacggtgg	gccagtgatg	ctcaccctta	cttctttttt
25501	caactcaacg	ccagcttcac	tcttgtaagt	atctggtgtg	tcagcgaagg	ggaactgtgg
25561	caagggtgtg	ggctctgccc	ttactctagt	ctcactgggc	ttcacagtag	gagccttcac
25621	cgattttggtg	atcttctgag	cagaagatgt	ggctgacaac	tctttttgta	atgtggcaat
25681	agcactaccg	gctattgatg	ctacatgga	aacagagtca	gaaaataaag	tcatttaacc
25741	atcctccgat	ggctagccct	cttgactga	gtctgagcct	attttctata	aggtctgttc
25801	tttaatgttc	tcattagcac	tcattatcac	acagttaatg	aaaagtcatt	tagagataag
25861	ccaattataa	agctccttgt	catgcctgtt	agtttgtaaa	acaaaatttta	aaatatcttt
25921	tttaaagagt	tgtattcaga	actccttatt	ttacagcttt	tatcataaaa	ggacaggatc
25981	ttctaaagct	tagtcacgaa	ttttcactta	accattccga	tgaatgccac	ttttgaaaat
26041	accacagtgg	gagattcaaa	attaagaaat	tattgaaatt	gttggtaaat	gcctaagaac
26101	tactttgcaa	tagtacattt	gggttttagc	cacaaatcta	tgtgaaaggt	aaacatgaag
26161	acattcagaa	aaaatathtt	aaaggtttcc	ttactgcttt	tattctgttg	tggctcatgg
26221	tattttgttt	tgtaatgttg	gactaaatca	aatataggca	ttatatgtaa	ttacagttc
26281	tttgaaggca	tgaaggttt	gggttctatt	tcttgatgt	gtataataac	aatagtgtact
26341	aatatcaagg	atttattaca	tgctgacaac	tgMaggtttt	tatgtccttt	ttacttgcac
26401	ttacatgta	tgcttacttt	ctcctgatga	cagagattat	aagggagaag	atagggcact
26461	aatccagagc	tatttgattc	cacaatccaa	cccagaccac	atacagtacc	acctctccat
26521	ctgtctatat	tgagtatata	aatatatgat	ttctcaatgt	ctgtctttat	tattgaaaca
26581	cattccagct	taagttactc	tgaatgtct	cacagcataa	gtaaaactat	gctgtgtaac
26641	acactacctt	tcacaaaatc	attagaacaa	tagtaatcaa	aacaattgag	tttgagctgt
26701	ccctgaaatg	tgaactagag	agaagcctgt	gtggatttgt	ctctcctcag	aggtataaga

FIGURE 5-H

26761	taaccacttg	tgactctagg	ctcactcccc	tgggcgagtt	tcagaaacca	aatcttttagg
26821	gtgtctgggc	ccactgtgaa	tgcaaacaca	cgcacacaca	catcaccaaa	aaagaatcct
26881	ccattggcct	accccagaga	tgctctgttt	cacaggtttag	atacttattt	cctttaaaca
26941	tttctgtatc	atgctctgta	acttcttacc	tcatatccat	gttctgtctt	aggaaacagaa
27001	atTTTTGaaa	cagtaaagtg	agggctagct	gtgcgggggc	gtttatccac	atggactaat
27061	ctttccgttg	ttagatctgt	agttttcttg	atctgcattg	aaatgaaact	cagtgatacc
27121	attgatcacc	agatgaccac	agcagtgagg	cttgctttac	catgaacaag	gtgaaaaatc
27181	agcagggtata	gactcacctg	tgatgatatg	tgcattccct	tttgatcagt	agttttgata
27241	tgagtctcag	aaggagcctg	gattactcta	ggcttgactg	ctttagggac	aacgtggggt
27301	tctgaggctg	gacgttgggg	aggctcagct	acctttgcgg	cggaaatgcg	ttccttatat
27361	ccgtactcca	aagtggctcg	ctgagcatag	gattcttcaa	gatgcccagg	ctctctgggc
27421	tctctgactc	gggcctggtc	tactgcaaga	acaactgttg	ctacagcttc	agcctttttt
27481	ccaacgtcca	cctggagaca	aggtttccag	aattaatata	taggaatatc	gagatcaggc
27541	tggaaatatc	cctgggcatc	aggacaggca	gatggcgtcc	acattatata	gcagtgttaa
27601	cgtgtctaga	aatgtatctc	agaaacactt	ttagggacta	tttcattgat	tattatatgt
27661	tacagacatc	tatttagata	tactctctgt	acacctactt	aattatacta	gacattaaat
27721	cacatatata	caacatagga	caatcacaca	atgaacataa	aatcacaaag	agattttgaa
27781	atTTTtctaga	atTTTtccag	gcagacaatc	aatcagcaat	tggaaaaatca	gaatTTtgga
27841	gctgggttctt	ttcactgatt	atTTTtatta	tcttgttgac	catttagtct	ggtattaatg
27901	cagtgcacagt	gatgatataa	gtgcactcaa	ataccgtcat	catcctgtcc	agaaaaatca
27961	gtgactacag	agttatatgg	ttgcgatcaa	atcggacata	acatgaaagc	tcacaaacac
28021	agagtgcagca	tatgaattta	cttatgattc	cctaagggta	agattgttta	atctatcaga
28081	aaataccttt	cttaaaacac	acagatgaca	aagagaaccc	cgtgcaaata	aaaatatgtt
28141	gattaaaatg	aaagtgttat	catgtttgga	ttcaagagaa	caacctttca	cattgaagtt
28201	taattttactt	tcattattat	ggagagttaa	agcaaagaat	gaaacaaata	ttattttctc
28261	gtttctgagt	ctgatgaaca	ttaatggaaa	tacaatttgc	agaggaggtt	ctcttttaaa
28321	gaaggcaaac	tagctgatgt	ggcttagata	ttatgattct	atgtgatact	tggaaacagc
28381	atacctcaaa	aatcacatag	ccatgttcat	tttaaaagta	catttttaaaa	gtgcatttta
28441	aaagtaagat	tggaaaaatt	tattaatatt	cagttttcta	tacctgtgaa	tagaatctag
28501	aatgcatcag	aaacattctt	caactatgct	acctgcatat	ctttaaaaaat	tattctctga
28561	accattccaag	atataaatga	gatttttctg	agatggaatt	gggtcttttag	tgatcatggg
28621	ctttatccag	ggcttccttt	taggaagaca	caaacaattt	catctgcctc	gaaggactgc
28681	aaataccatc	ttcacttttag	attgcatcat	ctcagaaaaa	aacataaaaat	acacatgagg
28741	cttaggtgag	ttaagtttgt	ccattttattt	ttttcttttt	taaaaactat	atgggcaatg
28801	agctgacttt	aattgtatag	acatttttaaa	atgttaacat	cttcgcacaga	taacactaaa
28861	taaataaata	ttattttgat	tgtagtgtga	tcacatttcc	actatatctc	atttgaacct
28921	tttagccagt	ctgctatgaa	gtagtgcagt	taagtcttaa	ttttatttta	acaatgataa
28981	aagaaactgt	caaagaaact	gtcatatgac	taaatatcac	acaactgaaa	tattttaaatt
29041	ttgttcttga	ttttaaacat	atggaaaaat	cttaatcatg	gtaaaatatt	ttaaattgag
29101	gaagcatctg	tctgtttttt	ccttgaatta	ttgtatatca	gatttatata	cacacactta
29161	ttggtggact	acaaatgagt	atgctggtaa	ccgtttttat	ttcttagtgg	actttgatat
29221	ctctcacatg	tttghtaacct	agagaagcag	gaagacaaat	tggactagaa	tactccaatt
29281	catacgagtt	aaatgctgag	aataaattta	ggagacataa	agaagagtat	tatttggctc
29341	gacttttcac	tactagaaat	gctcactgtt	caactggagg	atggactgaa	tctaaccatc
29401	tctattgttt	tattgatcag	ttaaacaaat	agatggaaca	ctagaagcac	aattcacgac
29461	ggatgaaaag	ttatgagagt	tgatgatgaa	atgggatgaa	acaatacttt	tcacctccat
29521	agctcagatt	ttcatctctt	ctcgaaaaag	atgtatttgt	ttttgtttta	tagtgaatcc
29581	ttctctagtc	attggcggtg	tggctggttc	agcagatttt	gcagtggtaa	ctactacttc
29641	agggtataaac	atTTTtctcag	cttccatcct	tagctaattt	tttaacaaaaa	caagatagtc
29701	aattcatgac	aaaatttgaa	tggaaacaaa	agtaaaaagt	taatcactca	tgaagtatgt
29761	tgcatagtgg	aatttctgtc	atTTTtagaga	cttctgaaag	gctgatatgc	cattaaatgt
29821	tagatttgag	ttaaaggttta	aaaagtttat	cttaaatcat	atcttagaaa	aaaaagatgt
29881	agagtcagaa	aatgacactg	agggaaatac	aataggatt	caggccatcc	tgctaatagaa
29941	atggaaaaaac	tttagttgct	aattttcaag	tggtatatta	gcaataaaga	atacaattag
30001	gtaaatggct	catttgaggt	aaatgacaga	gtcatgggaa	acagtttaat	tcatggatat
30061	ttcatagcta	caaatagata	cggtaattct	ttcatggcct	atgtgtaatt	gttctgtttg
30121	gatacttctt	tctctagatt	ttaatatgca	tcttgttttag	ctttagtggg	agctgctaca
30181	gcatgcatta	taattttttc	agcttatctt	ctcctctgat	atTTTtagga	gggaaaaaag
30241	ataaagtttc	atacaaaagaa	aattatgggt	aatttactga	aataagtcag	actccataac
30301	ataatatact	gaattttatga	cccttcaaaa	cacacatctt	cttgacagtg	agtaagagtc
30361	tatacttact	tatacatctt	ccgtgttttt	aaaaaatgtt	catgggcctc	ttaaaattag
30421	cctgcatgca	atTTTtaatca	acttctggaa	gattcccaga	tgTTTtaataa	atgttgacaa
30481	taatggtgaa	gagataagtg	gagaaaggga	tatgtagtaa	tattaacaat	aataaatttt
30541	tttagtttcc	aattatttta	ttgtctaaaa	aataaatttg	gttaatagtg	actcatacat

FIGURE 5-1

30601	aagaaattca	gagacttgat	attaatgtat	tacaataagg	aatttcacat	gatatgtggt
30661	attaatgtat	tataataggg	gatttcacac	ttggaacaac	aatagtcacc	tttccatggg
30721	taacttggat	ttgttcttgt	ctagtagcca	tagtttctct	agttctcagt	attgtttctt
30781	gttctttggc	tttagcagta	gcaactgcta	ttgtagacaa	ggcagttttc	tcggcttcct
30841	ttctcatctg	attattacag	taaaatcaag	atttaagttg	aacagggcct	caaacacaca
30901	tagtatgacc	cttccccctt	cctcatgggg	atgcaagatg	gttattcagg	gttaaataca
30961	caagagaaat	aaactttcac	cggcaatgtc	tacatatact	gactgagaat	cacaaaactt
31021	agaaatgtta	gctattaaaa	aacctctaga	tgagtccctg	tgctactttt	taaaaattaa
31081	gctaaaaaat	gctaattcttc	atgcaaagaa	taatggtgaa	taaaatgaat	tataaatggt
31141	acagatggat	gaaaaatcaaa	tgtgcagata	aaattaatga	taatcagtcct	catatttacc
31201	attttgtttt	tagttaggga	ttttaaaagg	caaatacaga	ttaataattc	ataccatatt
31261	gtagtttaata	gtttactaga	aatttagttta	aagatgaact	tttcacagct	caaatatctg
31321	tattcacctt	ctcctgagtt	atttgcactt	gttctctttt	ggtagtaatg	ccttctctac
31381	ctcttgatac	taaatcttgt	tctttgactt	tgggtgtggc	aactatgact	ttaggtacaa
31441	ctgttttcct	agtttccttc	attatctgat	catacaaaaag	aaagtaagaa	aatagtcatt
31501	aaattccata	aatctttaat	aaaagaaacg	taagtcaaaa	agaaaggagg	caaaatttct
31561	tcctattcaa	ggaaatttta	attgcactaa	aatatatcat	ttgagttact	ttgatcatcc
31621	atactgtttc	actggcaaaa	atatcaaaac	aataagtcca	gtttaaaaga	aaaaaatgtg
31681	attagcaata	aaagactaat	gagtgctatt	ttgtactttt	cacatttttt	aaaactgcaa
31741	tctctgagac	atttcagtag	cactgtaaat	agcacataat	tttttgtatt	atgaattgac
31801	ttgtttacgg	acatctgctt	caataggaaag	atattaaagt	gaattattat	attatattag
31861	taacaagcca	aagaaagtct	gaaagttagg	aatgaattga	cagtgaaagg	tagctgtgtg
31921	ggaaaagaaa	ttttctattt	gcattataag	aagaggtgga	agtgaagaag	tgatgattaa
31981	gatccatgat	gaaaaatgtag	gtgatttgca	aatgaaatgg	tgcaagagtg	actttcacat
32041	tggcaggaag	tcatcacctt	ttcataactt	agggtgcattt	gatcttgttg	tgtggtagtt
32101	tcttcttgag	ctcccgggac	tgtttctagt	ttgtgtgact	ttgcagtgcc	aactaacacc
32161	atggatgcag	cagttatctc	agtttcttgt	cttatctgat	gtttagagta	aaataaagat
32221	ttgagtttca	aaagatacaa	aagcaatggg	aagacatcct	tgaaacactc	aggaaaatac
32281	aggatgctta	gtggtgaacg	ataaaatgtc	agattttccat	ttcagggggc	tacacttgtg
32341	cttaatacat	agactgcttt	cctgaggaat	gggcttcttt	tctgccacac	tgcgcttag
32401	caaatgttcc	tagaactgaa	catatctcat	cttgagacat	gtcaacgtgt	tagggaaccc
32461	ggtgggtggc	tgctgacaag	tggctgaaa	accataggcc	agctgaactt	gcagtcacc
32521	agcattgcaa	tggcaatggg	gatttctatg	cctttgatta	tcctaagtag	ggttcttgct
32581	gctttcaaaa	tgtctcactc	acagtaagga	gagggaaatt	cagtcagcag	cctctggtca
32641	gccttttaag	tgtacaagg	tctcaactgg	acctttaaag	aaagtagctc	taagatcagc
32701	aaagagcttg	agttcaagga	ggatgagcac	aggcgccctc	tttgacatgg	aagaattcaa
32761	gataaatgcc	tctctcctga	cacttaaaag	tttgatttca	catacgggag	agatgtggat
32821	tttagtgaca	ctgagattgt	cctcacacag	ctctacggca	caacagcagc	aaatgcttct
32881	aggtcactgt	ttatcaaccg	tgaattgaag	gaattttttt	ttttgaggaa	gtatttgctt
32941	tctccgatgt	ctggcatatc	ctcactttcc	cttgctattt	attcgggggtg	tttatggctg
33001	atgtatgtgt	atatgtgtgt	gtgtgtgtgt	gtgtgtgtgt	atgtgtgtgt	gcatgtaaaag
33061	tttgtgcatt	acaatctaag	tgcagtgggg	cttaggctat	gcacgaagaa	accaactgtc
33121	ccggtgggta	actggactgg	catgatatct	atcatccatt	tatgtatgtt	ctagaaagtt
33181	catagatgtg	ccctaaactg	ttctgtagac	aatctcctga	aaactgatca	agtgaaggga
33241	aaatagtgca	atgtgaacat	aattttccatc	ctgagtttca	atactagaca	tagaggaaca
33301	ataacaaaaa	atatacaacc	aaagacttct	ccatttaagg	gttttgacta	taagctacct
33361	gcagctggct	gtaatgtgat	attgtcaaca	aactacaaaa	tatttagaaa	atcagactta
33421	ctgcttcttg	agttacttgt	ttctgtttct	tagtaatttc	ttcagaaatt	ctagtttctt
33481	gttctttggc	tttagctgcg	gaaattacta	cctttgggtac	aaatgttttt	tcagtttctt
33541	ttcttatctg	caaagaatga	tttaagaaaa	aactttattt	cctgatgccc	aatgaaataa
33601	tatggtgttt	attaaatata	acaacatagg	aatttgaaga	tgtaaaatcc	cttttctgca
33661	gatgtcacta	aataaaaataa	ataatcccat	gttcataaat	aagatcatgc	tctttctctc
33721	cttaaactgt	aaattatgta	ggctgcttag	agaaaacaaa	gttgaattca	acactttgtt
33781	ttgaacagca	gaattgtagt	cttctttaaa	atgacttcca	atggtttacaa	atagatctat
33841	ggcaatatta	ttctgtacta	attctgtcat	ctaaaggtaa	tcttagaata	tatatcagaa
33901	tggaagactt	tagaagtaat	tttgtctgat	ctttttattt	tacatgtgag	aaatcaagca
33961	tggataattt	ataatctgca	tttatacaat	atttttgttt	tgctagtttt	cctaaatact
34021	gtgaagaatg	ctgtttccat	ctgggcacct	aaggtatatg	cgtatgtagg	gggacagttt
34081	tctctatattg	cctctttggc	attctcaaat	atctcatcac	tgaaacacag	gatctcaagg
34141	ctgaaaggga	cttgaaattc	atctttctcaa	accacccaac	tgccaactgg	ttccactggc
34201	caagagctct	actaaactggc	atttttccaat	ctgtcccca	atgccgccaa	cctgggggct
34261	gtccttttca	cctttttctgg	tcattttggct	tgttaaagcc	atgctgtcca	ttccacttca
34321	aactcatgtg	caaatgtctt	ccgaaggagc	caggaagcag	ttgctaagat	ttctaagca
34381	aagtgagttc	agtgtctcct	ccacttttcc	ccattcctgc	ctcagcatct	atttcttctt

FIGURE 5-J

34441	cctgggtttta	gccatctgtc	ctctccctat	agtctttatac	ttagtgcatc	cccagatcaa
34501	tgtgatgaga	ccccgttttc	tactcctggg	gtatgttcac	agagttcttt	ttcatactca
34561	caaggggagc	attcagggac	actaccaaac	tttggtatcc	agtaccagga	aatttacaca
34621	tacaacaagg	ggatcttatt	agtatgctaa	caaccatgtg	gcccaggaa	caacactctt
34681	catggtaaag	gtgattatct	gtgttgaccc	ctgtaagaac	ctcagtgaat	ttaaaatata
34741	aacccatttt	cacctgtctc	tgagttacgt	gcactctgctc	ttgctttgtg	gtaattactt
34801	ctttggttct	tgattttaat	tcttgttcct	tggctttatc	ggcgccact	actaccttag
34861	ttacagcagt	cttctccgct	tcctttctta	cctgcttttc	atagagaaag	gaagaaaaca
34921	ccttaatgca	tcttacataa	aaattagttc	aagaccagcc	tcgccaacat	ggtgaaatcc
34981	tctactaaaa	aatacaaaaa	ttagctgggt	gtgggtggcg	acacctgtaa	tcccagctac
35041	tcacgagact	gaggcacaag	aatcacttaa	acccaggagg	cggaggctgc	agtgagcgga
35101	gtcatgcca	ctgcactcta	gcctgggtga	cagagcgaga	ctctgtctca	gaaaagaaaa
35161	aaaagttaca	ataatctgtc	aggatttaga	cataaatgtc	acacaagagg	ataaggagga
35221	aagctggaat	gattttaaac	tgtaacagaa	aatctattca	aatgcgaggt	gggacattat
35281	cctggatttta	tgacactggt	ccagctatga	atcaagtgtc	atgtttgttt	tgagaaaagt
35341	aaaaacaaaa	gtcctttggg	gaaacttaga	gaaatgtaat	gccttccctg	aaatagtagt
35401	ttccacatcc	agtgtgtgca	gtgactgagc	tctggaattg	actggtctct	gtttctctgg
35461	ccactctttg	ccttcctacc	ttgaatacca	tagttgactt	ttgcctgctc	atatagccca
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35641	cagaatgaat	tgagcacagc	tgactgcca	gctcagtga	tgggtggtga	gttaatgtgc
35701	actgaaggac	gtggctctgc	gggtgcccca	tggcagcctc	gcacgtacct	gttcttgagc
35761	aggttggatg	tgacacagc	tcgtggtgtg	cctctgagca	gtctgtctca	cagcgctgat
35821	cactggttct	ctcactctgg	ccatatcaac	ggcagcaaca	acagtcgcaa	cagctgcact
35881	tttgtcagca	tcttgtttca	cctagattag	aaatgaccaa	gtagattact	tttttaaatg
35941	acatgcccag	tagaaaataa	aaaagcatac	tggaaaactg	agccacctag	agcaaaatac
36001	actcatacat	aagcatttat	tattgccaa	aaatacacag	actgtatcat	taaaaactgt
36061	atattatgga	aacttcacag	attggagctt	ttgtccta	taaaaatggt	tttacaaagc
36121	atgactactg	aatttggctt	tcagttgtctg	ctatattttt	atgttcatat	gcatttttcc
36181	tccaatttat	acagactgag	tttcatggca	gaaatccagt	tggagaaact	agaatgtgaa
36241	ataaggaaaa	acaaaacat	tctgacagta	cctcttttagc	accagtggca	acagcctctg
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36421	ttgtcagcgt	tgtctctctc	atctcagcct	cagatgagga	ggccacgtag	ccctcttgct
36481	tccaaggggg	aggcacttca	ggacctgtgg	ccacggtgga	tgcttgagtc	ttacgcata
36541	gcaatggaga	cctaacagac	ctgatggggg	atgtggagat	tcttgctgct	ggagacacgg
36601	acctgaanaa	caaaaaggcag	gaagtgcctt	tgtcaaaagca	aggaggggta	actggtatgtg
36661	aatcatgaga	tgaaaagctg	gaagtgcctt	aaggcagagt	tttaaaatgt	gtgcctccat
36721	aacccattca	gagggtaaat	aatgtacttg	gaagtaattt	gttttaaatc	tcaataaacc
36781	tattcttctc	tgctgttaac	ctgtaagaga	atcagcttta	attccaaata	agctggagat
36841	tttgtgcctt	gcaccttctc	acataaaaa	aaaaaaaaaa	tcacaacaga	aaaagctact
36901	tctttaatat	gcagccaaag	gaagacatg	tcaaatccag	caacctctgt	attccaaatt
36961	catctctgta	ttccaattct	gggggggtta	gaggatgtca	aataggtggt	ataagaagaa
37021	agggtttctgt	aatcaaaatg	cttggtccac	tcttgactaa	gcagcttaag	ccattttttt
37081	ttttcccctg	caggacttcc	cacagccttt	actatgtcag	tatgccttgt	gaatttccag
37141	gacaggggga	cacatcctca	ggaagcttct	tgacagcatg	tgcgtgggtac	aggttgtgca
37201	gtgcactttg	caaattgctg	ctttagccga	agtgtttgtg	gacagctact	tttaatttcc
37261	tccatatttg	tttactctcg	cccccttgt	attgcactct	ggacttattt	taaatatctt
37321	tagagttatt	gtgggaattg	actaacttaa	aaactaatga	ttctgtgatt	tttgggtaaa
37381	ttgataaagt	tgcttcttcc	agaatagttt	tcattgtttg	cttttttaggt	gtatccaaag
37441	tgcaagtagc	atcagttgaa	gaatttgggt	gctaaatccc	agcactgatg	gcaaaaaaag
37501	actatttctg	atctatagca	ataattctgg	ggattggcca	actattgtaa	ggtaaaaatt
37561	ttttcagaac	tgatttaatt	cttaataaag	cttattacat	tttctctctc	agggtggcagt
37621	attgcccctat	cattgcattt	tattaattct	gcatataaga	aaatgtttat	aaatgcactt
37681	tgctactatc	taggatattt	agcttacact	gatcatacat	gaaatgatta	ttctaattaa
37741	gctcaaggta	cagttgatat	tttctctaac	ttacagagta	ccctaacagt	acattataaac
37801	attaaccagt	ttcacgaaga	aatgtttatt	ttctcgaaga	atggcttttt	ttgtgtgaaa
37861	atccattttac	attttgtaaa	tgaagttgta	atcaaaactaa	agggaaatct	agggaaataag
37921	cctcttttct	gaacatgact	gcctttgaaa	tataacaaaa	accaagttag	aataatgtgt
37981	ggtttccact	aactgaagaa	aagcaaagag	acatgtgctt	ttaagtttca	ccctgtgcct
38041	gttcttctgt	gtacttagta	aatgggttta	attcaaaaaa	agttaaaagc	atgattagca
38101	tgacatgact	gattaacagc	aggacacagg	taagcccata	actgtgaaaa	tcattgtaat
38161	tttggtcatt	ataggagagt	gcttatttct	gtacttacaa	caaaaaataa	tcacctgggtc
38221	acagcgagat	acaatgcacc	ttattcaatg	aaatatgttt	gccttactct	acaacaaaaa

FIGURE 5-K

38281	tcaagattaa	actatgagat	athtaggaag	cagtctatct	ttgataacca	ttattttctc
38341	tgcaaatagg	catttttattt	cttaattattt	ggaaagcaaa	attttggggc	aatttgggatg
38401	gttattaatg	aactttcaaa	actgctaaga	tggtcaaaat	gctccatggg	atcaggggaca
38461	ctccatgatt	ctaaatgacc	cttaggccttg	ggttttaaaa	tatagtttagg	ttgttatctc
38521	ctcaagaaat	tgcatTTTggc	ttgtgtgtgtg	atTTcatggT	gtgcaaaactt	ggatttagcc
38581	tgagactgaa	cattttttttt	tattcgactg	ctagacatgt	tttttaaagt	aagctttttg
38641	ttcaaggttt	catgttagtg	tttgccaata	tctttacatt	tttgtggcta	aaacaataaa
38701	aattggaaaa	catctagcat	tttttttcac	atgtttattg	gacttttaca	ttgcctctta
38761	tgtaaataac	ttttttgtat	cttttgtctt	tttttgtgtt	gcattttttt	cctttaaaaa
38821	ttaatttgtg	gatgatTTTT	aatgcattta	gtgcatttat	tggttatttg	tcgtaagtgt
38881	tgcaaacatt	ccccagatc	cattttctttt	aatccatttc	aatatTTTgc	ttgtttatgg
38941	gtccttatcca	gcataagctt	acgtaattttt	gtatgttata	tactgtttct	aggctgggtg
39001	tgtctacctt	gtagccattt	tatgtttatt	gtgatacttt	tatggcagag	gcaatgaagt
39061	accttgagga	ggagaaaggt	cttaaaattt	tttcacaagt	gctgtttggg	ttagaaatga
39121	cttttttgctt	ttgccataca	tacatgttga	tttttatgta	gttgaatctg	taactgtctt
39181	tttaaaagct	ttcacccata	aatgcttttg	cagattgtct	tctctttttt	tttcattttt
39241	taactattta	atcaagctga	aatttattctt	gtaaatagt	agaggcagag	gtttatgttt
39301	gtttgcttcc	agatggatag	ctaattggac	cagcattctt	tattaaaata	cctctccctc
39361	ccctgaattg	aaaggccact	ttgctttttg	aattccctat	atacttggat	ctattatact
39421	tggtatctctt	tctggactct	ctgttttgtt	cccctgggtg	atTTttctat	tcattttacca
39481	ataccatact	gttctgatta	tagtaacttt	acagtatgtt	tgaatattat	ttaggtcaac
39541	tatctcctta	ttattctttt	ataaaaaatt	ttcttggcag	ggaacatcca	tgtgtttttt
39601	atTTcattta	aattgatcaa	taaacacttc	tttgctcaaa	ttttgtacat	ttttcatttc
39661	atcatattaa	aagtTtcatc	atgataaact	aaatcccaaa	ctttcaaaac	tgttgtggac
39721	aattttacact	tgattatata	atTTctgagc	cctgatcatg	atacatgatc	accttctaaa
39781	atacttccat	attaagtaag	catagaagtc	catttttattt	tctagataaa	ataacacaag
39841	atccatataa	aattttaaaa	ggttttactt	accatctgaa	tataagaata	ttggcataaT
39901	tattttctat	ttacaaggca	ctttcaacta	attatctcat	tgaagcccca	aaatgcagct
39961	tgagatcatt	cttatTgtga	ctctctttta	tttacagatg	acacaactga	aaacttaaat
40021	aaactgctta	acttctttta	ttccagttac	ctatcaataa	cattgaggat	aataattctt
40081	acaggttgtg	aacatttaat	gagataatgt	atgtatagtt	ccaactctgat	agaggaagtg
40141	atccatataa	aataacaatt	atTTtattat	ttatacttat	tgccctaaat	caaactgtta
40201	agtgatcagg	ctgatttgtc	cttagggctt	tgaactctaa	cttctgtgct	cttctccttt
40261	cactgtgcc	tattttggcc	cctaaagtag	atattttatta	catgaaatat	aaataagaat
40321	tcagaagttt	ataaggtct	tcaattttacc	tgtggacagt	gaggatttgt	gaaaatcata
40381	ttcagtaact	tcttggttta	cctcctttgt	cacctgtac	atTTttgagt	gcatgaaact
40441	tacacgggag	gagggcaggg	aagtgcgtgg	aagagaagtg	cgtggctcct	agcgaggcct
40501	gtgcccatgg	acctaggtga	ggacaaacac	tctgtccttc	ccgccccaat	gttgcatTTc
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40621	agtaggcaga	cacacaagcg	gctggatgtc	cagaggaaca	cggagcccca	caacctgccc
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40741	cgctgcatgc	cctgcgaggg	ggacaaggga	atctttctcg	tttcaaaacc	tagttccaaa
40801	atgtgcaata	atctgtctct	tctatggcag	ctttacctga	ccggagatgg	ggtcggtgcc
40861	cgacagtgtc	tgaccgggga	aggggagtgt	cttatgggcg	atggggactg	ctgccgagcc
40921	agctgtgctt	tggcagcaat	agacggtggt	gttggggatc	ttgacttttg	cttcggagga
40981	atcctgggag	gtgttttatg	tggcagctgt	tgcccagcgg	caccatctat	gaccatctca
41041	actgttgcaa	ttgatctggc	atcaaagtgg	gcttcaatct	tctgtaaaag	attaaaacaa
41101	agcccacgtt	gaggaggaat	agctggggac	gcaacagcct	gaaaggcttg	aaaaccaaca
41161	gtatagaaaa	ataccttttt	aattcgggtt	tgtcttgatt	ctgagatctg	agcagtcgaa
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41281	atgttttggg	gggggcacaa	tgacccattt	taaaagagat	tctgttaatt	ctgactacaa
41341	agtcaaaaa	atTTtctgga	tatcccaatg	gagaaaaattg	cagaaagttt	tggattttgc
41401	atgaatataa	attaggttta	aaaatagaaa	atgttcatta	caagataaaa	atttacttag
41461	aatgatTTTT	taaaaattca	ttatttgcca	ataatttgga	aatgtagatc	acttaattga
41521	aacccttttc	agtttataat	gagattcata	agcacagatt	gcttctattc	tgcgtccctg
41581	actgaatct	cagggacttt	tcatgggtgt	cgaaaagcca	gcttttatat	cagctcacag
41641	cattcttccc	agggtctgga	gaggTgcTaa	gtggacgctt	ggccccattt	agacacaaac
41701	cagctctctc	cccttctctc	tgttctctca	cctccagcac	gtaccttgaa	ccagtaattc
41761	agcagtcgaa	gtagctcttc	caacgcTatt	ggTggcattt	actgaatagg	tccctgagtc
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41881	atcaagggag	ctctggattt	cggctccatc	ccggtagaac	ttcaccacag	gtgtatggat
41941	tccagtcact	ctcacttTga	gtctcacttg	gcttcttTgt	ctcacggtca	tgtctgcgag
42001	tcgttgaacg	aagtTgggtg	gtgctgtctc	agctgcgggg	acaagagaac	aaagtcaaga
42061	gtgagagcca	gggtgctccc	tacaaggtat	ttttaaataa	tcacagctcc	aattccaaaa

FIGURE 5-L

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42181	aatgcacagca	agaatgggag	ccaggagatt	acagaaggct	ttctcaccac	catattttat
42241	tttatttgct	ttgttttgct	gagcagttta	ggccaccacc	ttttgtttct	ttgttttaaa
42301	taaaagctct	agattttgtt	ataacatttc	ttgagaatct	ttctgggtact	tccccctcta
42361	cctcacatct	agcgcctctat	taatatgtga	aagccatggt	gcatattcca	gtaagttgca
42421	ttaaaatgaa	ttccagtggt	tgctacgatg	gggtgtacctg	ttacttaaag	aatcattaca
42481	tttttaattt	aattttttaa	attctaaacc	ttctccaact	tgatagggtat	tcaaaataacc
42541	caaataattta	cttgcattta	aaacgttaat	cccaataata	acattacttc	attttaattg
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45601	atagaatgac	ttaaatttgg	cctatttagt	tgctggattc	taacggcaat	tttaatccaa
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45721	ttgtcagat	ttgtcagtac	tctgtgaatg	gtataaccctt	aaaatgacct	ttccatagt
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45841	gttaacttac	tggagaggag	gcaaaggaaa	aaaaaaca	agtgtgaatg	tgtgagctta
45901	ccactaatgt	gagcctcaaa	ggttgcggt	ctaccctcca	gtaccacaac	gctttgtaac

FIGURE 5-M

45961	ggctgcgttaa	acgtcgggtgc	ttgagttgtc	atcttttctag	gcactctgaa	aaagaagaga
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46081	cacacgtttc	tccaaatgga	ttgtctcata	ggtcatctgt	gggcctagag	tgatgggcag
46141	gtctttctctt	ttgtggcttg	aacagttttg	catagttcat	cattgagttg	acttaaagcc
46201	taacccaaag	tagcaagtgt	aaggggaaat	ggaaaaaagt	attagccaaa	cagaacaagg
46261	aatgaaccct	agtgtgcaaa	gagggaaat	acagtcttac	caatgggtgga	aaaccagggt
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46381	gacatgtgat	aaatgtaaaa	taaacctctg	ggcctggcgt	ggtggctcat	gctggtaatc
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46741	cttagtaagt	gaaaaattatt	ttaaaaattt	tccttctccc	caatattttt	cgttcactct
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48301	ttttagaata	ttaagtgaac	ttaaacaatt	tgaatcatgg	aatcatttag	ctgatataat
48361	aaagctttca	actttttaag	gaaaaatgtt	cagacatttt	aaaatagaat	ttacaaggca
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48541	ataagaaaag	ttgctgctca	cctgatttct	caagagtgcc	taaaaagggt	gggactaagc
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48661	tgaatcgggt	agcctcta	cctaaaaaca	aaactacaca	gtcaagactg	gtagtttttg
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49321	agttacactg	atgttaatga	gcttattgct	tatacaaccc	tgcaagatat	aatgttgaaa
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49681	aagatcttta	taatgactca	gctgagagat	ttgtgaaact	ctacttagag	ggaggaaaat
49741	tgtcttggtg	ataatggaaa	gagactttta	tcaataaaaag	agactaaaat	ttttaattta

FIGURE 5-N

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51781	cattttttgtt	aacacagtaa	tattaagtga	tataatatct	gtaatttcct	ttccactcat
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51901	aaaagcaaat	tcaagaagtg	cacagggaaa	agcgtgctga	caaaaacaat	ttattcta
51961	ggaagacagt	cgtgttcttt	gagttataga	ggcggaaaaa	gctacactgg	gaatgtggga
52021	ggcaagaaat	tggtgcttac	aattttaaag	acttattgtc	ccattttttt	ctacatccag
52081	ttataatttc	tttagaagca	agatcaaatt	aggtttccac	aactattttac	aaagtgtacga
52141	atagtcacag	atgcatttaa	caccacatcg	aatacaaaaa	gattatttca	gacacgtaag
52201	atattttttac	caaagtaaga	aagataaaaa	aattaaagtc	ttgaatgtct	catgagcact
52261	gctgttaggg	gcacttggaa	tttctctcct	attctacctg	ggtttaggca	actcacttga
52321	atctctgtct	cagatttgtc	agttgcaaat	tggagattat	tatctcgact	tcaaagagtt
52381	attaggaata	ttaaatgaca	gaatgaacgt	gacagtgtcc	aggaccatga	gaatctgaca
52441	catggtaggc	attttgtttg	tttgtctgtg	ccaggcatga	cactaagaaa	ataatttctg
52501	tgcttggtag	tattgatttg	ctcaattatc	tctgactacc	tgataaaaa	tacaagatag
52561	tattttctaa	gaaatctttg	agaagtccaa	aagttagctc	atggaataaa	gcacatgtca
52621	cgctcttccc	tgaaggccct	cagaaggtga	catgacactt	atatgtggat	taaaagcaa
52681	ccaagaaat	actggaatct	taaaaaagaa	ataagttgga	cttctgaagg	cctgtggcag
52741	gaatctataa	acctgattag	atctaaccac	cagcaaatgc	tcattggagg	tgatactgct
52801	gtcaaatatc	aagctttaca	catgtgaag	ggaggcaacc	aggctcattt	ttccagtaa
52861	ccactgcaga	cacggcacct	ggggacaggg	attaagggct	ctttcagggc	caaaaacatg
52921	tttgggagct	gaaaaataag	ttttgctttg	aaatacaaaa	agaaatctgc	aacaatgaaa
52981	ataatggata	tttatcaaat	acctacaaaa	gaagatatgt	caactagtca	actgcacttg
53041	agattgggat	atttcaatgc	gtctgacaag	ctcagggatg	gattttccaa	aactgaaaca
53101	gtctctgtgg	gacaaaaatc	taaaaatggc	cctcaaaagt	ctacagtctc	aaaaaacaaa
53161	ggttaatctt	tgttttttta	aagtaaaagg	aactactcag	tgccacacac	gccaagtgtc
53221	gattttttct	cagcttccat	tatcacctcc	agaagtttac	ttttttattt	ctaaacaaag
53281	tctattcttc	ctttgaagct	aaagattctt	tagctaccac	tttctacct	tcttctccag
53341	gctttcaggg	tgttttcttc	aaaggccttc	tcaacatttc	ctgaagacat	cagcatcaga
53401	acccctagt	taagccttgc	taagcccttc	agggactccc	acatccatgt	gtaaccacac
53461	tagaggaaaa	tgatggatag	cacagtttct	aaatcagacc	gactttggat	caaatcccag
53521	atgcaccagt	tattagcaaa	atgaccctgg	attaatcatt	gaagcttcat	ttcttcttgg
53581	taaaatggga	atactcactt	cttcgtagt	aatattctcc	tttactgttg	ttttgggttt

FIGURE 5-O

53641	cattaactag	atthttgtaag	ttctttatttg	atthttttatt	tttacaaata	gtttttacata
53701	ctagtattttt	ttttcatagc	acatttttata	acaaatgctc	aatgtggaag	ctatttgctgg
53761	ttattgtttgt	tatttgaata	gcccttttcta	caccttttagc	cacacagttc	ctgcctggca
53821	ggtctgaaat	ggcattcatt	tcttcttttcc	cacttcagca	ccttacctct	gtgaccatac
53881	tttgggtctt	gccctcttca	ggtcttttctt	ctgtggagtt	gcttctcttc	taacatcaac
53941	agagaagtta	aagatacatc	tcttttcatc	agtattatca	tgagtagagc	gtaaacattt
54001	actctataac	catatacata	tgcttatctg	tcttccctcca	gtgtcagggg	aaaatgggtc
54061	tattactctt	caaggctaga	ccaatattca	ggatccttct	actcttgttt	cttccaagac
54121	acacactatt	ccatataata	tgtttaactt	ctcctatcta	gaagcttctt	ccctttacca
54181	gccactctac	ttgatacatt	gttttcccat	ttaattataa	ctgagcttat	tgctgtatta
54241	atthttcttt	ttcttattgt	tatggtctaa	atgthttgttt	ccttccaaaa	ttcatgttga
54301	aattctaacc	caaagggtgat	ggttttaaga	gatggggcct	ttggcaagt	attaggttat
54361	gagggttttg	ccctcatgaa	tggtgattgt	acccttatga	aagaggcttg	aaagagctcc
54421	tttttctctt	ctgctatgtg	aggtcatagc	aagaaggcct	ttctatagag	aaaagtgcc
54481	ttgttagata	tacaatctgt	tggtggcttg	atcttgaact	tcccagcctc	cagaaatgta
54541	agcaataaat	ttctattggt	tataaattac	ctagggttaag	gtaagttgct	acagcagcct
54601	gaatagactg	agacacctat	tctttctgaa	ccctctttca	gcttcttttc	tcattgttct
54661	tgactatttc	atattgtgtt	ttccactgcc	tttcttattt	ccaaatccaa	taggcagagt
54721	tttttttttt	tttttgcaac	atthtttggtt	gtcacttatt	aatccagtgg	atacttaaaa
54781	attgtatttt	cataatgcat	aatagtaagt	gatgtgttag	gaaactcttc	aaataaattc
54841	acttaaggga	caactatttg	tgthtgatga	ctgaaaagtc	aatgagttca	tagcactaaa
54901	cttgaactat	ttctcaggct	atgtcttctt	ttggccttgg	ctthtttgata	aaacagccag
54961	gaagaatcac	ccaagataca	ttttttctac	atcccatcac	tttcaccagt	tcacctacta
55021	acttttatac	ttcatctttc	tagaagctct	ctccaaactt	gaattccatg	gcaccagcct
55081	ctctggactc	atacagttct	gacttattca	tgagcagttc	tcctcctggt	ggtcttcac
55141	aggttctacc	tcttcttact	cttgtgtttt	ccgggggtta	gctcatctcc	tttcaaggct
55201	tcaactacat	tctgatcact	tcaagatgat	tatctctgcc	ctattcatcg	ctcgactggt
55261	ccagacttac	atthtactct	tactggctat	ctccaagaga	atctcagact	taaaacaccc
55321	agattagact	ccttataaat	ctgtccttct	cctggatttt	tccatctgag	ttataacat
55381	cacaatctat	tcaatcacct	aagtgagaac	tctgggaatt	tttcttaatg	cttccctctc
55441	cttattacct	gcctctgaga	tgtcataaaa	ttctthtaat	tctaccacct	aaaaatagct
55501	tgaatctttg	taaacttggt	tattgtactt	accgtttcca	ggctcttatt	tctcacttat
55561	tctattggat	ttagcctctt	aaccgttcat	ttctgcctcc	aatccaagtc	cacctcaaag
55621	ccaataaagc	actccatgat	aaaaatttca	cataatttct	ctgattttaa	tcttcagcta
55681	gtcttgggag	ccctacatca	cccaagatac	tgactgaatc	tattatcctc	cactcctggc
55741	tttttgggtc	tgthttgatt	ttggccagcc	cattgccttt	ttgcagcact	gactagaaca
55801	acgatcgaca	catagtagct	ccttggtatg	ggctaaaaatg	tgaacctctc	aaaattcata
55861	tgthgaaatt	ctaactccta	gtgcctcaca	ctgtgacagt	gtthttgagat	taggtcttta
55921	aagagatgat	taagttaaaa	tgagctcatt	aggggtgggc	ctaaccctaat	acgactgggtg
55981	tccttataac	aacaagagat	aggaccagga	acagtagctc	atgcctgtaa	tcccaacact
56041	ttgagagatg	gaggtgggca	gatcgctgga	gccagaggat	tcaacaccag	gtggggcaac
56101	atagcaagat	cttgtctgtc	ttaaaaaaga	aaaacaaaaa	caaaaaatcc	tgggcatggt
56161	ggcgttcacc	tgtagacca	gctactcagg	aggctgaggt	gggaggatca	cttgaacctg
56221	ggagattgag	gctgcagtga	gccatgatca	caacactgca	ctccagcctg	ggtgacagag
56281	tgagattcta	tctccaaaaa	taaagaaaaa	aaaaaagaac	aagagattaa	gacaaaaacag
56341	gaacagagga	aaggccatgt	ggagacagga	ggaagatgga	agtgaaggag	agaagcctca
56401	gaagaaatga	gctctgttgg	cactttRatc	ttcgaacttc	aagtcttcag	gactgtgaga
56461	aaataaatth	cagtaagtht	aagthgcca	gtctgtagta	cattthttatg	gcagtgttag
56521	caaactaatg	atatgtctca	taacatata	cttaaggaca	tgaacaactt	tatcagataa
56581	atatgatgac	aatttgagct	tttggtgacc	aactthtctca	gaatccctga	atcatattth
56641	aaggaaatga	gagtgagga	ggctggagag	gacaggactt	cctaattgct	tattaccata
56701	tctcagcagc	aaaaaactgc	tcatctctag	gccttcaactt	tggtatctaag	tgthaatgtg
56761	tactcttcca	tttaaaatga	ggaagcttta	gcaacagtht	cacctthtggc	aaattcttht
56821	tcaaaatgaa	ggaacactta	tcaYctgtaa	tgtgaatctt	tgtctccctc	catctctgct
56881	gatagattgt	gatttgggga	cacttgagct	atagtcgtcc	ttcagtatcc	ttgtgggatt
56941	ggctccagga	cccctaacc	cccgagctat	atcaaaatat	gtggatgctc	aagtcgctta
57001	tataaaatag	catagtattt	gcattttaa	tatgcagatc	ttcacatatg	ctthtaaatca
57061	tctctagatt	ccttataata	cctaatacaa	tgtaagtgtc	atgtaaatag	ttatgttgta
57121	ttthttattt	gtattthttt	tattthtggg	ttthtcttht	ttcagthatt	gtgatatgca
57181	ttthtgtgaa	ttcatggatg	cagaacatgt	gagtagggag	aggcaactgt	attgttaacc
57241	catcagagac	tacattcatt	agaggttagt	tgagtaacaa	ctgttgtaag	agtatatgta
57301	agthtaaaaa	acagtaagct	ttgaaaaaga	taaaagtaag	tcctggcatc	cagaagctgg
57361	cctthtgaat	aaatgatgag	ccaatattga	tgcatthatta	ctaaagthca	taataacat
57421	tagggttcac	tgthtgttgg	acattctgtg	ggtthtcgatt	gatgtthta	gacatgtatc

FIGURE 5-P

57481	caccattgca	gtatcataca	cagtagtttc	aatgccctaa	acatcctctg	tgctccactt
57541	gttcttcatc	ttcttccctc	tctccctaaa	gcctggcaat	cactgggttc	ttattgtctc
57601	tgtactgttt	tctttttcag	aataccatat	agttggagtc	atacagtatg	tagccttttc
57661	agattaactt	ctttcactta	gcaatatgca	tttaagattc	cttagtgtct	ttccatgcct
57721	tagtcgtgta	cttcttattg	cctaagattc	tactgtatgt	atgtatctca	gtttgtttat
57781	ccattcacct	attaaaggac	atcttgtttg	cttccaagtt	ttcgccatta	tgaataaagc
57841	tgctataaac	atctgcatgc	aggttttgtg	tggaacacaag	ttttcagctc	atttgggtaa
57901	atgccaaagga	aactaattcc	tggattgtat	gacaagagta	tgttcagttt	tgYaagaaac
57961	tgccgaactg	tcttccaaag	tggctctgcc	gttttgctgt	cccaccaaca	gtgagtgaga
58021	gttcctggtg	cttcacatcc	tcactagcat	ttggctttgt	cagtgccttg	gatttttagcc
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58141	aattagggag	tattctacaa	taagaagaga	atgagggaaa	taaaacaata	actttaaacg
58201	tggtcctctg	gtggtagacc	aggctcattc	cctgagtata	tcattgggtt	tcataattcta
58261	gctttctagg	atgagattaa	aatctgcacc	taagagaaat	aaggaatgag	aactttgggt
58321	tactcattaa	ggttatatct	gcacattaga	tttctaattg	acttataatt	ttacagtaat
58381	agctctaata	gtagaaagga	caacaaaaata	tgaatatatt	acatgggtta	tggtactttc
58441	acatatgag	tatttatact	tagaaacagg	ataacctcca	caaaagagtt	ttagttcctg
58501	cccctttacc	taagtggaca	actggttctt	gctagtactt	tttcatactt	ctagtacttt
58561	tgtttcctgt	gttgatattt	tgggcaaaaa	cttttgctgt	tagcttctgt	ctgaaatgtg
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58981	gaggttgaca	ggtctaacac	ttctaggaa	cgttagaatt	ttgcttcata	ctaaaaggaa
59041	aaggaaatth	gaagttgcta	agatcacat	gtgtaattat	ttcgttctct	tttcttttat
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59221	ccactcactg	caacctgttc	ctcccagatt	caagtgattc	tcctgcctca	gcctcctgag
59281	tagctgggat	tacaggcatc	cgccaccatg	cctgcctaata	ttttgtattt	ttagttagaga
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59461	caatatthttc	aatgtgttgc	ttttcagaag	tctttctaaa	caatgtcaaa	tttcttttta
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59641	taagttccag	gatacatgtg	caggatgtgc	aggtttggtta	cataggtaaa	catgtgccat
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59761	ttcatcctga	tgctctccct	cccccaaccc	tcaacaggcc	ccaaggtgtg	tagttcccct
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59881	tggttttctg	ttcctgtgtt	agtttctctg	agataatggc	ttctagtctc	atccatgtcc
59941	ctgcaaagga	catgatctca	ttccttttta	tggctgcata	gcattccatg	gtgtatatgt
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60061	ctattgtaaa	tagtgctgca	atgaacatac	atgggcatgt	atctttataa	cagaatgatt
60121	tatatctttt	tgggtatata	cccagtaatg	ggattgtctg	gtcaaacggt	atthctgtgt
60181	ctagatcttt	gaggaatcac	cacactgtct	tccacaattg	ttgaactaat	ttacactccc
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60361	cttgttctta	agctactaaa	ttaccaagct	ttactgggga	tctgtctgag	taagagtttc
60421	caaagtataa	aagctacatt	cttgagagact	attctagaga	cagattttaa	cagaagtaat
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60541	ttgccaaaaa	atgataacct	acacaacttt	ttttgctgtc	aaattccaga	atatagactt
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60721	tcaactactt	aaaactattt	agtaactctac	ccaggataac	taatccattt	aagaagaaca
60781	aaaataagaa	aaagtttcaa	taattaaaga	acagtaaaat	agctttgtga	agcgcacatt
60841	atthgtctga	ttttattttc	tRaattgtac	tgacaaaaaca	ccagtgtgta	atcttgacca
60901	agcttatgct	atcttgtttc	cttaaatagt	ggttctcaac	cagggatgat	tttctgccag
60961	gggatatttg	acaatatttg	gagacatcat	ggttggtaca	tctgagggtg	gaggtgctaa
61021	tgacacttag	tgggtagaac	ccataaatgc	tgctaatacat	cctacagtgt	ataggacaac
61081	cccccaaca	cacagaatta	tctagtccca	aatgtcaacc	ttgtatcaag	gttgaaaaat
61141	cctgcttttag	agaaatacac	cacaaataacc	acattttcct	catattttaa	taattttta
61201	acataatag	atatctcatg	aaacattcat	ctcaaaacct	aagcaaaata	cagtttttta
61261	tatagaacat	tttctggtca	gtgtacacac	aagttgaatg	gtttttgaaa	agcattctac

FIGURE 5-Q

61321	tgcattaaag	gacataaata	aataaatata	tttattaagc	ttctctcact	aagtaaagca
61381	caccactgat	acttcctcct	gcttatctga	tacataaaaag	gacattaagc	catcatttcc
61441	tgcagtttat	gttcataaac	acggcagttg	attagaaaaga	tgtagtact	tctgtttgaa
61501	aatgtagctg	ctgctctgcc	ctctggctca	ctttgaaaat	ctgtggttct	gaaagctcaa
61561	ggtactat	ttactcttcg	tatttggtc	tgacctgtga	gctacRttcc	tgcttctcat
61621	ttcccttggg	ttggccacac	cgggtgagag	tggggctgtg	gtgtgtttt	ttaaggttgg
61681	gggaggggtt	gtagtactc	agacaagatt	ctgataagtt	cacgctcagg	gtgggtttga
61741	ctgaaaacta	gaatttataa	ttttacaaat	cggattctcc	ttttagatat	gtatttttat
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61861	gggcatttaa	aaatat	attgaggctc	aagcttaatt	tggaga	ttgtgaacta
61921	tattctat	gtaattactt	tacatgcaat	aaagtaattt	ttccctgaga	atgagatcta
61981	aagttttcag	attaaattga	aatgaaagaa	tttttttaaa	aagttattaa	ttcatatgag
62041	ctgttctgaa	gaaagcatta	gaaatgtgtt	aaagcttatt	tcaaaaggga	tcataataga
62101	aaaataat	gacttaatgt	ctatataata	aaggctaaga	tttttaaat	gcctgaaact
62161	ggtactgagc	tcttcattaa	agcaggatcc	atgtgcgtgg	acattttgat	agccctttt
62221	agagtgtctac	agtcttataa	gggtatctat	ctatgaagtt	cctcaaggtt	ccactgttta
62281	aagatgtcaa	agtgactttt	tattttctat	gttctattat	accactatgc	atttttataa
62341	tactcactgg	acacaaaaca	aatgttaaac	taggtttgca	tttgtctaga	gaatgacaag
62401	atctatgctg	actttctttt	ttctaacata	ggaataaatt	tttcatcaac	tagctatatt
62461	cccagttatt	tcactactca	acaaagccac	aactgcatga	aagggtttta	agcctgggac
62521	ttttgggggt	gaataagagc	ctgattat	gtttgggtat	accaagttt	tagtgaacca
62581	tatttgaagt	cctacaatca	tatatattat	tatat	ctttattgaa	taaatagaat
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62881	aatgggtctat	tttgaccat	aattcacagg	caaggacat	gagggtcaaa	gatttttagt
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63001	tgaaaaaatg	ctcatcatca	ctggccatca	gagaaatgca	aatcaaaacc	acaatgagat
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63121	gaggatgtgg	agaaatagga	acacttttac	actgttggtg	ggactgtaaa	ctagttcaac
63181	cattgttgaa	gactgtggg	atctctcaag	gatctagaac	tagaaatacc	atttgacca
63241	gccatcccat	tactgggtat	atacccaaag	gactataaat	catgctgcta	taaagacaca
63301	tgcacacgta	tgtttattgt	ggcactattc	acaatagcaa	agacttgga	ccagcccaaa
63361	tgtccatcaa	tgatagactg	gattaagaaa	atgtggcaca	tatacaacat	ggaatactat
63421	gcagccataa	aaaatgatga	gttcattgtcc	tttgtaggga	catggatgaa	gctggaaacc
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63541	ggtgggaatt	gaacaatgag	aacacttgga	cacaggaagg	ggaacatcac	acaccggggc
63601	ctgttgtggg	gtggggggag	tggggagggg	tagcattagg	agatatacct	aatgtaaatg
63661	acgagttaat	gggtgcagca	cagcagcatg	gcacatgtat	acacatgtaa	caaacctgca
63721	tgttgtgaac	atgtacccta	gaacttaagc	tataataatt	aaaaaaaaaa	tcctctctga
63781	aaaaa	agaattttgg	tctttagtct	ctccaaatag	taacatttta	agaggagttaa
63841	tacagaatac	tccaattctt	taaaacaagt	gctcccttct	ctatgaatac	aagattgaga
63901	atgggctcaa	aagcatgaca	ttttataaaa	ttagtgttcc	actattttta	tgagcaatat
63961	ttaggatttc	aatttacttg	cataaaggta	catgataacc	tcaacaaaaa	gcctacattt
64021	acccaattaa	aaaggattca	gatggcccta	tgtttctcag	ggcaacatca	atggagggcc
64081	gtttatctca	tctatgttat	ctcta	aatgtttat	atcagacata	taaaggcata
64141	tccatcatta	gaaattttaa	acaaaagtga	agattgtaat	ttattttcag	taacatgtac
64201	agccagtgtc	atataattta	aatatcaatt	atactctgat	ttcaaatatg	tctgttaatg
64261	ttattaaaa	aaccatgtaa	tctttgca	gtatatggag	tctgtttgag	ccaacctgca
64321	aagtttcaga	ttggtggaaa	aagaaatatt	tctccatgtg	tccacatagt	aaaaggaata
64381	tagcacaatg	agaagccagt	acatttgact	gcagaaaact	gtcttaactt	gctttgatta
64441	ctatccttcc	ataaaacaaa	ccactactct	gcaatgggat	gtttaattgg	tgtacgttaa
64501	tggtgggttaa	atattaacca	ccatgattat	tttttctctg	agttggagaa	atttcattta
64561	ttaagtgc	tttgagtcaa	tagttatata	agaataagca	tcctctatct	gcaaaagttt
64621	gaatcgata	atcagattaa	atttatacc	tttagaggaa	cttaatgtca	aattatactt
64681	taaggaattc	ccagtaaagc	taagaaacag	gcaagcaaat	tctgttgttt	ccaggatttt
64741	agtagactta	atatacattt	tattattagc	atataaacca	ttagcaataa	aaaagaaata
64801	aacacacaaa	acatttgttc	ccgcagtaat	catgtatgct	ttagtaacct	taagatatga
64861	gctagaaaaa	ttcatcttta	aagactcaga	ttcagtactt	ttatggaagc	ttgaaatacc
64921	ataactaatg	gattgaaaaa	accaacagct	gcttctcaac	taagatttat	gatgttatga
64981	cgttgttatt	acattaaaaa	taaagtaact	tcaaagttct	atttagaaat	aattcttttt
65041	ggtttgctat	caatgaagaa	tttaaatgaa	tttatatYtg	aggttgctat	atgtgtacac
65101	ctatcttaac	aatgttttcc	ccccttccaa	cagctatctg	gaaatcttgt	ttgaMatata

FIGURE 5-R

65161	cagatttttta	attatctatt	ttaaaactgg	aattgtgctg	agtcttttat	ccagagcatg
65221	catataagta	actctctgta	tgataccact	gttaaaatga	gagaagctta	tttcttcatac
65281	aaatctaggc	cataagttgc	taatggcact	ggcgccatta	gcatgaggtg	tttttctaac
65341	ctgatcacat	catatatcac	ctgggcattt	tatgtattac	tgaattcata	caagaactca
65401	tacagagaaa	aacacacaca	cacacacaca	cacacacacg	tatagcaaag	attcaaattct
65461	cttgaaatag	tttgtattca	ttcacaaatga	tccttatggc	atgtaacaca	ctctgctata
65521	taattttgat	taagttaacc	aacaatttct	tatattttaa	gaaatggtat	aggcttttct
65581	aattctgaga	ttctctacga	gatggtatca	ttccgctaac	tgatttaatt	tttgcttaca
65641	atggattaga	gtcagagcac	agaggaaatga	aactcatgtg	ccaagaaaaa	gtcagctgtg
65701	gccaggcaca	gtggctcacg	ccagcatttt	gggaggctga	ggcaggcgga	tcacctgagg
65761	tcaagagttt	gggaccagcc	tggccaacat	ggagaaacac	catctctatt	aaaagcacaa
65821	aaattagcca	gcatggtggt	gtgcactctgt	gccagctact	caggaggctg	aggcagaaga
65881	atcgcttgaa	cccgggaggc	agaggtttca	gtgagccaag	atcacgccac	tgcactccag
65941	cctgggcgac	aagagtgaga	cttcgtcaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaagtcag
66001	ctgcaactga	ggaccagccc	ctgtacctta	gactgtgctc	ctgacttgct	caggaacatc
66061	ctgttaaacc	tgggccatct	ttcatggtgt	tcataatcca	ttttgggttc	tcaaagtaaa
66121	tcagtatttg	tgcaattata	caatgtattg	acataggttt	gaacaaaacc	tataataggt
66181	actttgtata	tccatttata	agtcttggtg	ggggtcttta	cagtgtctta	ctgtttatac
66241	tactatatatt	acaaggcctt	cgataaaata	caagtttaat	acttggcttt	tgtggtacat
66301	cagttagttt	tcttttaagt	aataaagtac	aatgccataa	taatttagaa	tattgacata
66361	taagaccaaa	aattactctc	aagaaaatgt	ttaatgtaaa	tgaagaaaat	aattactactt
66421	aacatttaga	caatacaaaa	caattagttg	cattgaaaag	tttccagtta	actaaaagtg
66481	ccaaaatagc	cgtttgtatt	ttatcattta	attaattaac	aaactaaaat	atgactttat
66541	gaaatactac	ttttaaagggt	gtaatacagt	ggttggcata	ttttagctta	ggtttctaag
66601	aagaaatctt	agaaaataata	ctagcagcca	ggggcccatcc	ttgctgatag	aaaagtacat
66661	ccccacagta	gctacattca	ttcttcgacg	acagcagatg	accaactggt	aaactctcca
66721	ctccaggatg	tgatgtcaga	ggccaaaagg	acttctttta	ttttattttg	atcatgttat
66781	tattggagaa	agcccagctc	agcaatcctg	taattacaat	ttccttctat	tttttctctc
66841	ttgatctggt	gataacgaca	atggtagtta	atgatcaaat	ttgatttatg	tttcacatca
66901	agtattccct	cattctgttg	agcatcatct	tctccaagta	atttacctct	cccaaactcg
66961	ccccccacc	cccaccccc	accaaaatat	cagaggaagg	tgcaagaaaa	agcaagtgtg
67021	acatgtcgca	actagatttc	aggtttccat	aatgtctgca	accaacatat	ggaaaagggg
67081	caatttctta	cagcctgcct	ttgccatggt	ctctggagat	gcctgatcac	tgcactgaca
67141	gtccccaact	ttttcttgag	tgcagttggt	gcagatcttc	tgctttgggtg	attttgctat
67201	actctgatta	gttccaagag	ttttttgtag	attctttggg	attttctagg	tagaaagtca
67261	tgatatctgt	aaatcaaatt	agttttcttt	cttttaaaat	cttagtaact	tttatgtttt
67321	cttgtcatat	tcactagtta	gtgtttccag	tcaacattga	ataagagtgg	taagagagga
67381	tgtcccttaag	tatgatgtta	gttacagggt	tttataaatg	ttctttatca	agctgaggaa
67441	gtttcctctg	ttactagtgt	tctgacagtt	tttaaaaatt	atcatgaata	cacattagat
67501	ttttgtcaaa	tgttattttct	gcatcaattg	acataattac	attatttttc	ttcttttgcc
67561	tgtggatgtg	gtggattcac	tgattgattt	gtgaattttg	aaagagccgt	atatacctag
67621	aacaaatccc	acgtcttgtg	tgggattctt	tttatccatt	gttagattta	acttattagt
67681	gttgtgttga	ggatttttgt	aattatattc	atgagagata	ttgggtttta	gttttcattt
67741	cttgtaatac	ctttacctgg	ttttactatt	agcataattc	tgaccaaga	gaataagttt
67801	aaaaagagtt	ctctctgctt	ctattttctg	gaagagactg	tggagaatgg	ctattttttt
67861	ccctttaaat	gtttggtaat	ttaccagtga	aatcatctgg	gccttggtgt	ttcttttttt
67921	ggaaagttgt	taattattgg	ttcaatatct	ctaacagata	aagggtcttt	cagggttttct
67981	atttctgctt	gtgtgagttt	tggtagtgtg	tctttcaagg	aattgatcta	gttcatttca
68041	gttatcaaat	ttgtgagctt	agagtttctt	tcatttctat	tattagtaat	ttgtgtcttc
68101	tctcttttgg	ttatcctggc	tagaagtata	tcaattttat	tgatctgctc	agagaacaag
68161	cttttggctc	cattgatttt	ctctattatt	ttcctgtttt	aaatgtcatt	gattttacact
68221	ctcgttttta	agttttcttt	tattctgctt	gctataggct	taaaccactt	ttctttctct
68281	agtttcctaa	ggtgacagct	taggatgatt	ttagattttt	ttctttctaa	tatatgcatt
68341	taatgctata	cattttcctc	tacacactat	ttttctacat	cccacagatt	ttgataagtt
68401	atattggtaa	tttcatattt	ttcaaaaat	ctaaaaatcc	ttattgagat	ttttttgatc
68461	tacatgttat	ttagaagtgt	gctgtttaat	ctacaggtat	ttctggattt	ttgagctttg
68521	ttattaattt	cttgtttcat	tccattgtgg	tctgaaaacc	tgcttttgta	taattactat
68581	tcttttaaat	ttttaatgga	tgatatatgg	ccaagaatgt	ggtctatctt	ggaaaatgct
68641	ccacgtgagc	atgagaagaa	tgtgcatttt	gctgttggtg	gatggaatat	tctatgtgtc
68701	aattagatga	agtagattga	tagtgtgtgt	taggtcatgt	atttcctaata	ttttgactgt
68761	tagtaatccc	attttttgaa	ctctctcatt	ctccttcctt	atattgtata	tattcttact
68821	ttggttatat	gtctaaagac	aactttcctt	ccccctccct	cgaccctctg	tgtgaataat
68881	ttcagcttcc	tctagaactc	tttgaccat	agtgcactta	gggggtgatg	ttcacataga
68941	agatgaaaag	ttactgatgg	actgaaatgt	actagggtga	tcccttcaaa	tcagcaagga

FIGURE 5-S

69001	agctgaggta	ttctagcaca	ccccaggagt	gctgggtttga	aaggctggct	ggtgtctagc
69061	aatgggtctct	gggaattttta	ttaccagaga	cttgtatttg	ttcttctaaa	acatgggtcat
69121	tgtagtagct	tcctagggtct	gccataacaa	agcaccacaa	agagggtggc	ttaaaaaac
69181	agaaatgtat	tctttcatcg	ttcagaaggc	tagaaatcca	aaagtccaaa	gtctaagcca
69241	aaacaagcat	tctctgtcca	agggctttag	ggaaatatat	ttcctcactt	cttttagctt
69301	ccagcgattg	caatctctgg	tgcaccttgg	cttatagcag	ctgcattact	ccaatctctg
69361	cctctgttgt	cacgtgtcat	gtactgcctc	ctccctgtgt	gtctcctctg	tgtctctgtg
69421	tctgccatgg	cctcccttta	aagacaccag	gaaatggatt	taggggtccac	cttgacacta
69481	ctgaaccogg	tagagtccctc	ttactgggta	acaaaaattg	tcatgtagaa	acattttatt
69541	gtgggtctcta	acttctcggg	gagttcccta	aaaacgtttc	cagaatccac	aggaaattca
69601	cacagacaga	gaagctgaaa	gccaaagctg	acactcagcg	tcctcaccgt	gttgcgtagc
69661	cagttttatcc	cttcagttt	tacatatccc	cagtcaccac	ccctaagtgg	aacatagcat
69721	acaaatcttt	cagctttcca	tagaccccat	tttctcacca	gaaattatgt	tctttgggtg
69781	gggaagcatt	cttatttaaat	ctactaacc	agaccagaat	gtgataagaa	atactgttac
69841	tcttgtaaga	gtaatagaaa	tgaataaaaa	tgcatttttaa	aaggcacctt	ctggagctgc
69901	attcacttga	atcaaaggct	gaccttgacg	ggttggcacg	gcagcagctg	ctagaggagc
69961	ggttctggag	caaattgggca	tattcccctt	tctgaccctg	ccaagtaagt	ggtttcctac
70021	cttgtctgca	tttcagctg	actctgtttt	ccaacagctt	gtttgtgtgt	gggtgtgcat
70081	aatacttatt	acaaagcgag	gtggctgtct	gccatcatta	gcataatatg	cgttggagac
70141	aatttgccat	ggataaagta	ggtcccctta	tatttccactg	atTTTTTTT	actcaaaaga
70201	ttttattgca	tgttttttta	aaatgcatac	ataagataaaa	aataccattt	tgtagatgct
70261	tgaatcaata	aagttcttgt	aaaaagaa	gttgYtgaat	gggacaaagg	taaaaggattt
70321	cattttatta	cctaKttctg	gagctgctat	tttacaagta	ttgatgttta	catgcattct
70381	aaatggaaaa	agagccaYgg	caagcagcca	tgagaataca	gatagaaaac	ttcatgttat
70441	gtaactatta	ttgttctggg	ttaaagaaaa	attggatttg	.atctattttt	ttcatctact
70501	cctatggtta	aaatatattt	tgatttcacc	cagtttttat	tgtgctaatt	gggaatacac
70561	acacattctt	gtctatacaa	tattttctgc	actcttgctc	tttaagggaag	atagggaagt
70621	aattttgtgg	tacaaaaagg	aggatccaat	gaatccgatt	tgccatgtcc	tgggttacac
70681	aatgaaact	gctgttgaac	agaagggaag	gtgagcaggc	caaagtctca	aactctcaac
70741	acaaaggctt	gttcaccctg	aggagggtca	tgcctccaac	ctgcactgat	gctcagatgg
70801	ttcatgatgt	tatacaaact	ctcaccatca	aaaggaacag	tgtgtgggag	attcatggaa
70861	aaaggccaaa	atcacagctg	tgtgttccct	gtttttgagg	tgaattcat	gcacaactga
70921	taacattcaa	atctcatctc	ctgtgataag	cacagagaaa	atgaattgtt	tttgctttaa
70981	aaaggacact	ttcatttaag	tcaacgcaa	tcttttagct	ttccaatgca	actcaagatt
71041	ccgcttatta	taaatggaaa	acagtctgtc	atgccttggc	atttacattg	acacaatatc
71101	agagcatact	ggaaggagat	atgtttattt	gtttcaacta	acttatttca	tggctgcact
71161	taaaatgctg	tgcatacaac	aggagtttca	aaagcttcag	atgggtgattt	ttagtaagaa
71221	atgggtcatga	ataaagacaa	acataaagca	gaacaaaata	agatattctt	tcctttcttc
71281	atgtggaatt	caaatactct	taagttcttg	gatttggctt	tctttatatt	tacaagtttg
71341	tatgaaatac	tggtttcaaa	taagatctgt	tcacagccca	gactactgag	cccagctac
71401	aattaaaat	tgatcattta	cgtagtgttc	taaagaagta	cataaattct	ggttttgaca
71461	gtttggattt	agtcatagag	agtggagcca	tccagttcct	cataccggat	gatgttttat
71521	gcctaagtac	atatgtttta	aaatgttgga	acactttaaa	atgttggaac	aatattgatc
71581	caggaacaac	aatcctggac	ctttcctctt	tcctccttac	tattatttta	gtcctgggag
71641	ccagcatcta	tttttaaatt	caaattttca	atcagggtct	agcccagagg	gtctggaggg
71701	ttctcacaca	agttttgcag	atgaggtgag	agattttcat	gagtgttca	ttgttagggc
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71821	ccctctcctc	cctctaaaaa	ggggagaaaa	acaagctagg	tttatctttg	tttacctttg
71881	gcaacaattc	aattcaaaag	agtttactga	gtgtgactgt	gtcttaggta	ctggcaatac
71941	aatgacaaca	gggctgtcat	gaatcctgct	gataaggttc	ttacagccta	gccagaggag
72001	actgatgctc	aaacctgcga	ttccttttgt	tatattcagg	ggcgtggctg	ggcagtgacg
72061	gtgctgacag	tgcatatggc	aggaccatct	actctggact	tgatgggtca	ggaggcttcc
72121	caggggaagt	tgtgtctcag	cagaactgga	acataagcaa	gagttaagtc	acatgaagat
72181	aggggtggtga	agatagtaag	agagtatatag	gaagaaaggg	ctggagagaa	gagcatgata
72241	tgttaaaacc	ctgaagttaa	atgtcacttt	actaggggtt	gggggtaata	ggaggggatc
72301	aaaccgaggg	cagagagggg	aggccaggtt	gtaaagggtc	tatgaactac	ttgaggaat
72361	ttaaatttga	gcaaagcagt	tagaagggtc	ttgtagtcat	ctatttttaag	tatgtgtctt
72421	gattatgagt	gatagaggtt	accattattg	attaatatag	ctaaaaaatt	ttctgcatct
72481	tgttcaaata	ttttaaata	catagaatat	tcagagattc	aaatgtacag	attcctacag
72541	taaattttctc	ttggaattga	gtgtgaaaaa	ctaccaccaa	atattttatac	atccttttat
72601	tggaaaaatca	aagctggaaa	actcaatgat	tttgccttat	gaaaacttaa	aaacattttg
72661	tgttgacgtt	cttcaaagta	tcaagtattt	ataatttggt	taagagttta	gaagttttta
72721	aacgttttct	ggtgaaaatc	ttgagtttaa	ttttcaccag	aaaacctgct	agacaaattc
72781	taaaagagct	gtaacacatg	taatttttaa	actttctttt	catttttagtt	ttcttgttga

FIGURE 5-T

72841	aaatgttttg	atattactaa	ccattcagga	ttttctctag	aagtaaattgg	ttataaatta
72901	tgtatatacc	ttaaaataga	aacaacactt	aaatttccta	ggtcttacat	ttttaaccag
72961	taactgcaat	tgatactttc	ataagaataa	ttatttgctc	aagacagaaa	tcccagcaaa
73021	aaggaaaatc	acacttaact	ttttgaaatt	aaaacataac	cagaagaata	actgcgtaat
73081	tattctttac	tgctgtggga	gtcaatcaat	agcccagatg	aataggtaga	tgataggta
73141	cacagaaagc	tatctgtact	atatcttgaa	tatcagcata	gtactcttct	gatctttgtg
73201	ctccccacc	cccacctttc	tctttctctc	tctctctaaa	aatggatttt	gcatgctttt
73261	ttccatcata	accatggatg	catatgtatc	tcattctgct	ccccaagag	ttaacatgaa
73321	caagcatgca	atagagaaa	caaaccagga	attccccatg	cctaacaacc	ccaacacaca
73381	aattcaacca	tgttgacaaa	atgggaaggg	agatcctgcc	aaattaataa	gaaagagaaa
73441	gtgggaagag	agacagtgtg	ttaccgggtc	tcacctgcct	tctttgttca	tgaatagggt
73501	tttactcttt	agcttcaacg	tgggcaacag	cagttaggca	agattcacac	attatttgaa
73561	attggacaaa	aaggatacaa	gaggccggct	atggtggctc	atacctgtaa	tcctggcact
73621	ttgggaggct	gaggccagc	ctggccaaca	tggtgaaacc	tggtttctac	taaaaatgta
73681	aatattagggt	aggcatgcct	gtaatcctag	ctactcagga	ggctgaagca	ggagaattgc
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73801	gcaagactct	ttctcaaaaa	aaaaaaaaaa	aaacaaaaaa	aacaaaaaaa	agatagttaa
73861	gagaaatttc	ctagaatgct	gtgtatacaa	gcttttaata	tagttctatc	aaaaattaga
73921	aggaactga	gatttaattt	tttaattaaa	ttggatatgc	agcccaagaa	agtatacgcc
73981	aactttttac	ttgactacac	atttcacatc	ttcagataac	attcagtaac	tttttaataa
74041	caacttgaat	acattacatt	taaatatttt	gattatttgt	agacagtcct	ccagcaacat
74101	aatttaatttc	ttcccttcat	caaaaatctg	taatgaatta	ttctttcaac	taaaagtatt
74161	cctcagcata	ataagactac	atttaaaatc	taagaagcaa	atgcttccct	acttcaagct
74221	tattttttaa	aggaagccaa	aaaatgatct	tttctgaata	aagtgtttca	gaaaggcata
74281	gaatacttca	atattatagt	aataattatt	gtaaaaggat	agaattcatc	tcataccatt
74341	ctattacggt	tccccctaga	acaaacaaaa	tgtatcctcc	tgagttaa	ttcaagctct
74401	tgaagaagat	gcagtcttca	gaaatttagat	aggaatttaa	gctctaattc	ataaacatc
74461	actttcctcc	atggaactag	ttgaagatta	catattaaca	gcactccttt	aatttaatat
74521	tctaaaaaaa	cagcatctaa	aaaaaaagaa	atagtgcgca	ggaggccggt	ctgatgacaa
74581	attacattaa	acaatatcat	tatccttagc	cctcagtggt	ttccattttc	cagatgttta
74641	aaagacacaa	aatgaaaact	ctcaattgcc	caagaggtag	atgatgaact	cattttccag
74701	acaggaaaact	gaggcaatga	ggctttgcc	taaagtataa	aaatgggtcat	cagcagaaac
74761	aagattagaa	gcagaaacac	ctggttacac	attgctgctc	aaaacacatc	aatagaatgt
74821	caggaaataac	gttggttctt	tcttgcaacc	tgtgttccat	cttgctgtat	gacatgcaga
74881	gctgacaaaa	gatggaaaact	ctattttaaag	ttgatggcac	atctatcctc	caatgtcaaa
74941	cccgtgagag	caacatgagg	aatgattatt	tacaatgaca	tcacagact	caggaacgta
75001	gctctagttg	aaattacaca	gaatgcattt	cggtaacaa	atcaagacat	ggaagcaaaa
75061	attaaaggac	agctaattga	aaaatacaac	atcaattcaa	tagttctact	gatattccct
75121	acaaagggat	gtttttaa	acaattaaaa	atatattatt	gaacaaccat	atttgaaatt
75181	tagcacattt	ctatgccgat	gtcagccttc	atctgcacgc	ccttaaatta	ggagggaata
75241	ggcatagaat	aattttgtcg	caattattgt	tgaaaacatc	tgtttctaga	gtacaaaat
75301	ctgttcttat	ccactacaga	taattttacca	agcttctcaa	atatattaaa	cgctccagaa
75361	aatttgatta	tttcacctag	cagtggtatt	agccaaacaa	gtatggtgat	cagactggag
75421	atacacttgg	tgggagatgc	tttgaggag	gtgcaggag	ataaacggcg	gcacttttct
75481	ttaggcacat	gagaatgatg	tccattggtg	ccaacaccac	agttattgtg	tgaggagcca
75541	gtacattagg	gacacactaa	catagacgac	acacagggtt	atccagttta	ctctgtgat
75601	tggcagcctg	cagttacctg	tcacgtggag	gatgcatttg	gaagagagag	cgccgctaga
75661	gttttgggcc	cgagccacat	agaggcctgc	gtctgccttg	catacctttg	gaatgaacac
75721	cgaatgcctt	gtctccttgt	gtaaaacctg	taagtgccca	tctgcagaca	atttctggcc
75781	cttcttgtac	ctgaagcaga	gaggcagttt	ttaaagtcag	gattgctgtt	tattcacatt
75841	atttccaaagt	tctaataatg	cttgcaataa	ggcccattac	cactgcaata	ttctcttagg
75901	attagtagga	accttgttag	cacaacaaat	tccagtgggg	ctctttatct	tttttctttt
75961	agtaggctag	attgcagtag	cagaatcaga	gatcattgcg	gtctcaact	cctgggatca
76021	agcaatcctc	ccacctcagg	ctctcaagta	gctgggacta	caggcgctta	ccacatgtg
76081	caggctaagt	tttttatttt	ttattttttt	taagagatag	gatctcgcta	tgttacccag
76141	gctggctctg	aactcctggg	ttcaagcaat	ctgcctgcct	cagcctcctg	agtagctggg
76201	attatgcgct	gtttatcttt	caagcagaag	ttggcaactg	gtggcgagag	aattgctttg
76261	actggctcag	acaatgtttt	tggaaaactg	aattttttga	aatcctttta	aaattggaat
76321	attgcatatg	aaaattcaga	tatccagcta	cccctaaaaa	caaaaacaaa	aacaaagcag
76381	accatttggg	cacactaggc	caccatttgc	tcatagtaac	aattacctag	ggtgtgaaat
76441	ggcacctca	tggtgtccag	tttatttctt	tttgccactc	tggaaacagca	ctgtgactc
76501	cttataaaact	gcattgggag	gagactcatc	taccccatca	tattcatacc	acagtatcca
76561	caggacaata	cagatgtgct	gttttagagg	actgtactta	atatcacctc	ctgatgagat
76621	cacttcattt	aatttttttg	aagcaatttc	attagaagaa	aatgacttct	aattataaaa

FIGURE 5-U

76681	ggatatttatg	caactgtatt	atgactatta	ataacatatt	tctagaaggt	tcctatgaac
76741	atgagtgcctt	aactgcatgg	ttttataaag	aaataatttt	attttgtag	tctgagattc
76801	ttgtttatatt	atttctaccc	acaatctatc	actcaggggt	gatgacaaat	gtgaatcggt
76861	ttctgttccc	attgcctaag	tgataacttt	gccttttctt	gggtatccta	agaatgtatg
76921	atatcctgaa	agcttgctcag	ttattaattg	agcacagttg	taaatctgac	gacaaaacat
76981	ttgtttacaa	cattgcaata	ttcttcaacg	acacgtatgt	agcagtgcct	ctttaaccac
77041	acacatacta	accaaattat	taatatattac	tgtgtggaca	aaaacaagaa	acacatctga
77101	caacattttt	ctttggagtg	aactgagatt	taataatgaa	ttaaatatct	ttaaaattca
77161	taaatatgac	actcttgatt	tgtaaaaaac	atgcaacagt	aaagacaata	aaacaaaaag
77221	caaaagtgac	tgactaata	tagcacaagt	gcagtttttt	aaataatttg	agaaacccaa
77281	gttttctcat	aagttcctta	gataactggt	tcataatttc	agtaccatca	atgggcacac
77341	acaataactg	aaactgatca	tttaatatct	actgaaacat	tgtgatcaat	aaatgctatt
77401	ttacttaatc	ttagtattata	agtataaaact	ggcttttgca	gatttgtaac	tttgtcctga
77461	aataaatttta	cttaaggatg	agaattttct	aaatgtttta	aagtaaccca	catattgaga
77521	aagaactgct	ttgtttacca	atagtaggtg	atccaaaacc	agtattctac	agtttgcttt
77581	tactgaaaaa	aagaggctaa	aaaataatga	tgtctccaga	gtgaaatcat	attgtttaca
77641	gctcagttat	tatactacct	ttcaaaaatg	agtttattgc	ctgtcacctg	gaggaaactgt
77701	gacagaaata	tttatattcc	acctctcaca	ttgaaaaaat	ttgtaaaaag	aaatcctagt
77761	aaaacaaaat	gttacaaaga	tgacacgtgt	gactctgttg	gaaagaggaa	aaagatgaaa
77821	gaggtaaattg	agagtaaagg	gaaataaaaa	caaattcctta	tattttcaat	tgataaaagg
77881	tagttaaagc	aagcagatgc	catgcttata	tggaaataga	caataaaaaa	taatttcaac
77941	ccacaatcct	tagaaatgtg	gaatgttaaa	cacagaagaa	aacaagcaca	accaacttac
78001	agtgcctttg	aaatttgtaa	aattattagt	actttatatg	gttacctttt	atttttctta
78061	aaggatttaa	ctatgctgct	actaaaaatga	gaggggtctg	atgtgagatt	gaatcatgca
78121	gagttgcagt	gtcatagaat	attaatcagc	tagccctaaa	cctttcagtt	agtgcctaca
78181	gaatgatttt	tctctgtgat	tgaatttggt	tccatttatg	gcttgctcatt	ataggctacc
78241	caccatgtca	gtgtaggctc	tggaaatcct	gttacttcaa	cttccaaagt	cactggagaa
78301	ccttccatga	cagttacatt	agacaggagc	ctggagaaat	taggtgcctg	gtcagctagg
78361	ctgaccacgc	tgctctttgc	tgatgtgctt	ttaatctctt	ctcgaggaac	catttgccctc
78421	tgatagcccc	tgctgggtgc	tgattgaaac	ctgaggcccc	agaatgcac	agaggaagca
78481	tgacgcctat	cttgggtttt	agtgaagtta	ttatcagcat	gcattttctc	ccgtgtttct
78541	agcaaacacc	cctgagcctg	aggggtcctg	tgtaaagctc	tctcatgcac	ttcactcatc
78601	atgctctctg	gatgttcagc	actgattctg	tgtaaggcag	tactcttttc	cacgaatcct
78661	ctggagggtta	gtgggggctc	agctttgaaac	tggaggtaag	gcctctcaaa	atgacttgaa
78721	aatgtttctc	tcttatcatt	gcatgcatcc	gcaaaggcaa	caggtggtgg	agaacagat
78781	tcttgggcat	cccctgggct	gctgggtcca	gcctgcaccc	catagctgct	tatgtgaagg
78841	ctcaggagg	agctgacagg	ctcttccacc	tccatgtcag	atgggtcaag	aggggactca
78901	gggcttctctg	ggagaggagg	caaggagatg	tcacaggtg	agacacactc	atattcttcc
78961	cctgagagca	tgtcttcagg	caggagcagg	tccctggacgc	caccctcctt	gtcagtgagc
79021	accttcagggt	cttgtggtag	tcgctcttcc	cctgttccat	tgatgcccaa	aagatctgcc
79081	acctgcacgt	gccccttgaa	aaaagaaaag	ccaaatcatc	cttattcatt	catttttctt
79141	tttccagttt	caattacagt	aaaactcaac	ttcagagaga	taactcgaga	caacttcaaa
79201	ggttaaaatt	tagggggctg	gagcaagaat	taYggatgag	aaaccatttg	tctgtcgatc
79261	ctgagcacag	tcccacttct	catgactaag	gaatcattat	aaagacctca	agttctgagt
79321	aaagtgtgat	agacattgtg	aacagaagag	agaaaagccct	agtttccatc	tgtagtgaag
79381	gggttggaat	agatcaacat	ctttcaaac	atgatctggg	gagtcctctc	aaacagcaaa
79441	gtcagcttag	gtctggcttg	tctacacaca	catctataaa	cacacagatg	ctgaccatca
79501	gagactccct	tgtaggtga	ttccttggac	tctcccgga	taacctgtcc	tttctctcaa
79561	gaaaaccatt	tcttttttaa	ataaattgta	gtgaaatata	cataaaatgt	accacttcaa
79621	ccatgtttta	gtgtacggct	cagtggcatt	aagtgcattc	acattgagtg	taactatcac
79681	tgccatccat	ctccagaact	ttttcatctt	tccaattgaa	attctgtatc	cactaaacac
79741	taacccccta	atcttttgtc	ttcccccgac	tcagcctctg	gcaaccacca	ttctattctc
79801	ttgctctatg	catttgaccc	ctctatgtac	ctcatataga	gaaagcaatt	cttcatgact
79861	agttttatatt	tcttgaagtc	ccttagttta	ttcttgcatt	gaaaaaatat	ttattgagca
79921	cctactgcta	tacactagga	accatgctag	tattagaggc	ataatttggt	gaatacaagt
79981	agatcagtc	ctgcagttga	ggagatgata	tccatgtgga	ggagScagat	attaatggaa
80041	caatcagact	tgtatggcctt	tcccaagaga	gcacatcaag	atacaatagg	aaagcacctg
80101	ccacttgtct	ctgctccaat	ctgagtgtag	tccctgctagg	agtggtgagt	agcagtaact
80161	ctttctctgc	ttccactgtc	ctagtctaata	ccacatccat	ctctgggtta	agaagaggct
80221	caaatgtccc	tgttgcatag	actcaaaaga	acattgaagc	tgaaaagcga	tcttatctat
80281	ccccaccctg	tggttttata	tctctttctt	gtgccgttcc	tcagcatttt	gggtgcttac
80341	ttacttagta	tgtactgggtt	tttgtcctgc	agtaactgat	gcatatagga	aagtcacatc
80401	ttgccttgcc	tttgagtttt	tcatttttagc	ccgtagtcct	gctgttgata	tacattttgt
80461	aagtgatatt	taagaaaata	agactgggtg	cgggtggctca	cacctgtaat	cccagcactt

FIGURE 5-V

80521	tgggaggcca	aggtagggg	atcacaaggt	caggagatag	agaccatcct	ggctaacaatg
80581	gtgaaacccc	acctctacta	aaaatgcaaa	aaattagcca	ggcgtggttg	tgcgcacctg
80641	cagtcccagc	tactcaggag	gctgaggcag	gagaatctct	tgaaccaga	aggcagaagt
80701	tgcagtgagc	caatattgca	ccactgcact	ccatcctggg	caacagagt	agactctgtc
80761	tcaaaaaaaaa	aaaaaaaaatg	ctatgtgtgg	tgatgggtgc	ctgtaatccc	agctactttg
80821	ggaagctgaa	gcaggagaat	ctcttgaact	caggcagagg	ttgcagttag	ccgagatcga
80881	gacgtgcca	ttgtacccca	gcctgggcaa	caagagtga	acttcgtctc	caaaaaaaaa
80941	aaaaaaaaaaa	aaaaaaaaatg	gttttcaggt	tgaagagtcg	aagcaaagca	atgttgcttc
81001	tactatccca	cagagattat	ctctcctcag	agaaacatta	acccaactta	gcgaaagtgg
81061	tttcccttcag	ccatttacta	aaagtttaaa	ttctgagtct	aaaacccaga	tgttcttaga
81121	agttccccctc	attaaaaaga	atattaaatt	actaattgcc	cctccctctt	ttggctgtcg
81181	tgccacagct	tagctcggtc	tctctgtcca	tctcttcattg	aaagtagaat	gcttattttc
81241	ctccttatgg	ggactttgat	taaccaccta	ttcagtctaa	gaatctccac	tacaacattt
81301	tggcagcctc	tatttgaaca	ctttttctga	aagagtactt	tgagaatgtg	tgccttactt
81361	gtgttaagaa	tatcttccta	tatgtagcaa	agatctgcct	tcctgcagtt	tcaccaatg
81421	gatctgaatt	ggcctcctgg	agctacacaa	aaagtccagc	tgctctccaa	ctttaatagc
81481	tctttgactg	tttgagaat	tggtcctaca	acctgtctaa	gcctctttct	ctgtaccaga
81541	cactctcagg	tcttcttttg	cctcaactct	ctctcatcat	cttggtcatt	tctgggaggt
81601	cccactccta	ctgcgccaca	agatccttca	tagaagagca	gggacatttg	ttgacttggt
81661	ggccttccag	gggcagacaa	tgacaactcc	ttaatgactt	cttcaggtaa	cctatgactc
81721	tccacagaag	aataatgttt	tagaattgtc	tgaaaactta	caacaagctt	aggagagaaa
81781	cttgaatata	agtcacagcc	catctccaaa	ctcctcaatc	cctgctgggg	aggaatttat
81841	ttcctaattg	agggtttgga	agaaggtact	gagcatgtct	agatctgtct	ctatgaggcc
81901	ctcacttttg	gatttgcctt	tcataaagt	catgggttca	ggttggtctc	aaggcatgaa
81961	aatcccccg	aggtagaagtc	tgtggtcgtc	tagatgggca	cccaagtggg	ctgggtacat
82021	atttaactta	tttaaatcag	gcatgaagtt	tagggaaacc	cactagaaaa	gtccaagcca
82081	tccagcttta	actggttcct	gactcctgta	tcttactttc	agctgggtgc	aaacacatga
82141	aaggaatata	aggctatcat	tttttacttt	ctaacaattc	ctaaaataga	aaaagtactt
82201	tctcaaaaaa	ataacactac	ccaataattt	ctactatcaa	taagaggaaa	agagttttct
82261	caaactctttt	tctggaacca	tttaacttcc	cattaaacat	gtttgtttct	agagttgttt
82321	actttccaga	tggtaagtaa	tcagtggaa	catcatcttc	ttgacttata	tgatatgttt
82381	ttattgaagt	gattgtatta	gttcattttt	taaaataaaa	atcacatggg	accattgact
82441	tatgctgaat	ttgtagtcaa	ctaaaatgtc	ctacctctc	tgtccattaa	tgctattgat
82501	gaaaatgttg	aacactgcag	tgtttagaac	aaagttagat	atctccacaa	gacagattgt
82561	ctccaaagtt	gacgttgatg	aactacttaa	cactcttgag	tacaattata	acttggccaa
82621	accctcattc	agtacacatt	tctccactta	tcttaagaga	gcatcataag	tgtgtttatc
82681	aaatgacatc	ttgaaacat	aataaattat	gcctatggca	ctaaccatga	attactcatt
82741	aaataatcat	ctcgggaagc	aagataaggt	gagtttaata	tatatgcaag	tggctctctg
82801	agtaaatcaa	tttggctctt	ggcactactg	cttttattct	taaatgcaaa	atcgaatgca
82861	ttaaatattc	acaggtactt	caaaaactatg	tacatctatt	atgtatcata	taaaaattaa
82921	aaaaattaaa	aatgcaata	agatttccgt	ttttaagtca	ttatggaatt	ttatggaac
82981	attattttat	tttatctca	tttttatttt	tgagatggag	tttcaacttt	gttgccaaga
83041	ctggagtgca	atggcacaat	ctcggctcac	tacaacctgc	atctcccaag	ttcaaatgat
83101	tctcctgcct	caggctccca	agtagctggg	attacaggca	cccagcta	tttgtattt
83161	ttagtagaga	cgggttttca	ccatgttggc	caggctggtc	ttgaactcct	ggcttcaggc
83221	gatctaaccg	ccttggcctc	ccaaagtgtc	ggggttacag	gcgtaagcta	cagcaccag
83281	ccagaaacat	tattttaaaa	ctcactgagc	tatatcttct	agaactgtct	agttttcaac
83341	tatgaaaatg	ctatccaaac	atttacatat	actaattatt	tgtaaatatt	ttttcaccat
83401	aaaaccatgt	ttgttattac	caaaaaaaaa	atgtgtgtgt	gttattttacc	cagaaaagtt
83461	taaaaaaatt	tatggttttc	agtacagaca	gggcataatt	acatcagctc	aatgagttct
83521	ggcaaaaatg	ctgggaaact	gtgatctaat	tcacaaaaac	atagctcaac	tctcaatctg
83581	cttttcttat	atcaaattga	gaggctgac	tttgtctttt	tggttgattcc	tttttctttt
83641	cccaccttct	aaatatatga	atggcctgca	gtcttatctt	taagttctct	aattgtctct
83701	atattccttg	cccctcaaac	atcttaccca	cttacatatc	tagtaaacaa	ttagctttta
83761	attaatacta	aatctattag	cttcaagtct	tatctctgtc	aggacttctg	aactttcatt
83821	tctgctgatg	ggcataatcc	cttgacttta	aatcattgcc	ctgtaggcag	aaaaaatgtc
83881	tagaaggag	aatacagtga	tattcttaca	tccattcaac	taagtgggca	gaaccaatcc
83941	tcaaagtcca	tagagcaggg	aactacatat	gtggtaaat	tgaaggaca	ctacaagatt
84001	ttatcttcca	aaatacctcc	ataacagata	gccttacttt	agggtaaata	agatttaatg
84061	aaagtaagta	ggaagaacac	aaaggaagat	attaagcata	ggacttggtc	tgtaaaacac
84121	atttgttag	aaggccctta	gcgggggctt	tagacaaaaa	ggggtaatgt	ggtattttgg
84181	ggcacttttag	gtggacaagg	taaaagaaaa	gggaacagag	aggtgggtga	gaagaacact
84241	aattttcttc	ccaatttctt	tcaaggcaag	tgtttcagga	acatcttctc	gtacctgccg
84301	ggtgatcagg	attatttgtgt	gtgtgtgtgt	tgagggtaga	gggggagtg	agggacctc

FIGURE 5-W

84361	ctcacctagt	ctgataagag	cactccactg	aattcttttg	tgcaaaaaat	atttccatgc
84421	tattgcttat	aagcagataa	ataggaagag	gggaaaagtt	tgcatggac	atctacagta
84481	tcattacaaa	gcagcttatg	tatacgcaat	agttcctggg	Rgctccatt	ttggtcttgY
84541	gggaaaagtg	tatggctaaa	attcaggaga	attgggggtga	ctgccagttc	ttacactact
84601	ttctgtaatt	tttgaggagac	aatatattca	atcccttttg	gcctcagttt	cctcaactgt
84661	aaaatgatat	ttgattaaat	cccttctagc	actaaaattc	tataactcta	aatgctggca
84721	tcaaaagcca	tcattctcca	ccaaatagtt	gcacgacttt	aggtgagtct	gttaatactg
84781	tgtgcttcca	tttaacctta	ggagttttca	tatcttcagt	gctcacattg	ggaataaaac
84841	accatcacta	atctgttagc	agtgtacgt	gtgttgcat	tagtgaattg	cctaattcca
84901	cctgctgcat	ttttgggtct	gaaaaatgag	aagtactttg	ctatctccag	gaaaaaaaat
84961	ccctgcattg	aatatattct	tatagtagtt	cagtggaaact	attctttcca	actcaaataa
85021	tttcctcagg	aattctacca	tcattttaagg	gtatcagaat	tgactgcaat	aataccagga
85081	caagcttttc	acttgggtgt	tcctatctgc	ccacatgggg	ttgtggagaa	tcattacatc
85141	tgatctacat	ataaataata	cagacaataM	gagggtaaat	gtgattgagc	tacttaaaag
85201	tgaagattac	tgccaccttt	tcattttgct	gtctacacca	attgcaccag	gacataacat
85261	gacgttaata	acaattcttg	acagctgtaa	ttgtagaccK	tcacttacac	ccaaaatgac
85321	tgatgctcca	accttttagt	ttgtattaga	ataaaagtta	tttttccatg	aaggtaaaac
85381	ttgctttttt	ttaatTTaaa	ggaatctgtt	tcttctaaca	agaaaaataa	agcaagaaaa
85441	actactttta	ctaagtataa	attatTTTTg	tttgcttttg	tagcaataac	ttttgtttct
85501	gagttcttag	taagtgtgtc	tagttcacaa	tgtaggaaat	tgtgcagaac	taataaaaat
85561	aaatgacagg	gtgttgaggt	tagtaactct	tagaaacctt	tttaagaaaa	tgtggtgcat
85621	ttaaggctat	tctttattgt	gtcgaccact	cattctcaaa	tgaagtgatt	ttagtataat
85681	agatgctact	ggcatctagt	gagcaaggcc	aggaatactg	ctaaactaca	atgctgtagga
85741	cagctcccca	caacagagaa	ttctctggcc	aaaatgtcaa	cagtgtctgt	gttgagaac
85801	cctgatTTag	accaatcaga	gtaacgtaaa	accatttgat	acaagagtag	catccagcaa
85861	aatgacccaa	gtttggcagc	tctcctttgc	ctcagagagg	aatctggggt	taagtcgctc
85921	aagaccctac	cacaaaaaaa	gcagctttgc	ttaacactac	ttgctgctgt	ctggtgtgat
85981	aactgcacca	ggccttgaca	tagattaacc	tgtggaaaag	gacctataag	aaagctgaaa
86041	gaaccatact	gacttcaagg	aaagataaat	ctttctccac	aaaataactg	ttacaaatgg
86101	agagggtttt	tgtttgTTTT	taactctcat	gtcacaagaa	gtgtatttta	ttaatTTgag
86161	cacggttcag	aataatgttg	actttgattg	ttccttcagc	tcctcaggag	agaaacactg
86221	ggagcaggca	acttggtcaa	gcaaaaagtc	aaaagctaata	tatagtcagg	cagctgtgaa
86281	tagagagtga	gcaacttatg	ctgaaaaacc	atcttgatgt	tgtgatttaa	ataacacttt
86341	caaaatcatg	atacatTTgc	atTTTTgtga	gtatctgtag	tcgttacatg	ctttatcagt
86401	aagtgcataa	gtgttacaat	aattttaata	tttctctaaa	tacttttagta	tttatatttc
86461	agctggattc	tatggtttga	taaagtgtgc	tggaaatatc	atcttagagg	tagagtctat
86521	gggaacaaga	tatgatctaa	tttcacgtat	taagctttgc	taatgggttg	gttaaaacat
86581	aaaaatcatg	gcttggtcaat	atgataaaaa	gggataagta	aaatttgaa	ttggatttga
86641	tataaaaaga	caatggaaaa	ggcagctaga	gatgggaaaa	acaagtgggt	tggggtgaca
86701	tggcatTTaa	atggctgtcc	caatgctact	gtgaaatgtc	atggtttcca	gtactcgata
86761	gtgagaagct	cagaggaaac	agcacaacag	agagaagaag	caccaataga	ggagcaaaag
86821	gaagcaagg	aggaggaaac	tcacatttgc	tttacactgg	gaaattctat	ttgtagatat
86881	aagaaagctg	caattcactt	ttatttttgc	atggacaatg	actttaacct	caaagcaaaa
86941	gtcctcaata	gctgaggtta	agtagttttc	tttaccttat	tcctttcttc	atgaaatatt
87001	gtctgcttat	tttttgctgg	ttccttttagc	aagtcaatgt	aatcataatg	gaagtcttcc
87061	aaattcggat	tcattcttta	aacatctccc	tgctgtacaa	agcaacagtt	agtgaagaca
87121	tgagccagga	aagttggaga	acagtgccat	acactaacta	cttggaagaa	aacatagacc
87181	acttgcaacc	tttcagcaaa	tatatccac	aagagactgg	tgtactccca	tgatgtgatt
87241	tataaaatta	tccctcccag	ctcacagttt	ccctcctgcc	tcattccttt	gatagagttc
87301	attgccagta	aaaattgggt	gttgaaagac	ccagcaggaa	aaaagtaatc	attataatag
87361	gatgcttctg	caggagcatt	ctctagagaa	aggaatcatt	atgcatggca	gtgtaaacca
87421	ttaggtaggt	ctggggagca	gcagtgaagt	agaaatgatt	aaagatctct	aggggagaag
87481	aaagtaggaa	atccagagaa	tctacacaag	caaaatactg	gggagactct	tgaaaagagg
87541	aataaaatat	cactgagtat	agtaaagaaa	aacagcaatt	gagaacacag	gatgcKtcat
87601	gtggttgaag	atatTTTTgt	ccctgcattt	catggggctc	agtttttagtc	atggaggtag
87661	tgggggtttg	caaagtactg	tgagtgcagt	gcaagagccg	agaagacttt	gtaaaggtgg
87721	aaagaaccac	tggtatcaca	cattgatagaa	cacaccagtt	tagaatgatg	attatactgc
87781	aatggaagag	tctctattcc	acctggaata	aaatccttag	atgagtctta	aacaaacatg
87841	catgctcatc	aaaatgcata	tgcaacactg	gctcggagga	ttcaggggaga	cccactactg
87901	gggagattct	gctttcagtc	ccaactctaa	accgaactgg	tttgtgctgc	tcaatgagtc
87961	actctgcttt	ggtagtcagc	tgatattctta	ttccaaaata	tcagctgggt	tggaaagaat
88021	gctagatTTt	gaattagatc	taaattcaaaa	tttcagatct	accactattg	actattgggg
88081	cccatgtaaa	gcactcttac	cctcttttga	cttttctctt	cacctctaca	cagaaaacat
88141	ttgccttctt	ttcgtctcaa	cattatttgg	aaatcactgg	agataatgta	tatgaacgtc

FIGURE 5-X

88201	ctttgtaagt	ctcaaattgc	tatacattag	aaaggatttc	tatcactatt	taagccctga
88261	caggaattgc	tgagcccatt	ttctataact	ttgaaaagag	agccatagca	tcaaccttta
88321	tattttaataa	cataaaaaat	agacatttgc	tctcttcata	caaacacctg	taaagtgtcg
88381	gtaagcattc	tttggaagc	gtttgttgcg	gctgtaactc	ataaagataa	tgctgatgcc
88441	tattttctctt	gccagagaga	ccctttctca	tttctacatc	cacccaaatt	aaacatcttc
88501	aagcaatgaa	tgatagtctt	tctctgtacc	aatccattgg	gcattttacta	caaatgccaa
88561	aactctttct	ggagtacctg	ctttagaaag	caaagcaggc	cagggtcggt	ggctcacacc
88621	tgtaacccca	gcattttgag	aggccaaggc	ggaaagatca	cttgagccca	ggagtgtgag
88681	accagcttgg	gcaacatagt	gagacctcaa	ctttacaaaa	aatcaaaaac	attagccgag
88741	tgtggtggtg	catgcctgtg	gtcccagcta	cttgggaggc	tgagggttga	ggattgcttg
88801	agcctgggaa	gtcgaggctg	ccgtgagcca	tgataacacc	actacactcc	agcctgggca
88861	acagagcaac	acactgtctc	taaaataata	aatcaataaa	taaatacaag	gcaaagcata
88921	gtgttaaata	ttgtgtggga	cactaaattt	agcagcgcca	gagggtttcc	ttaagtataa
88981	tcaagtaggg	agggttggga	tggcaacagc	agttatatgt	gatgtaatta	tatgtagtag
89041	ttatatgtgg	gattatacta	gtgttatagc	ctgaatgttt	atgctcccc	aaagtttata
89101	tgttaaaaatc	cacatcctta	aggcgatagt	attaggagat	gatgcctttg	ggaagtgtatt
89161	aggtcattgag	ggtgaagccc	tcattgaatag	gattagtgcc	cttagaaaa	aggcctgaga
89221	gacacccctc	attcttttac	catgaaaggt	tagagtgagt	agacagctac	cagggaagtcc
89281	tcactagaca	ccaaatctgc	cagcatcttg	atcttgaact	tccagcctcc	agaactatga
89341	gaaacaaatg	tctgtttttc	ataaggcatc	ttgtctatgg	catttgccat	agcagccagg
89401	atggactaag	acaggtagga	aggcacacaa	gtggcatggg	agatcaggga	gggagtgata
89461	tagctaagga	aggatttatg	gaggagcgag	catttggttt	tggctctgag	agatgctaa
89521	atttcgaaaa	acagagacag	aaggctgtgt	ccttgaagta	aagggtttaga	agtgagaaat
89581	cccaggggagc	atagtagatc	agtgggacac	agacctacag	tgaatgcaga	agcacaatgg
89641	tttggaaggg	tgaccagctt	cagaacattg	aaaggccttg	aattggaact	tgactKggta
89701	aggaagagtt	tgtagtagag	tgttgtgaat	gtgaagatga	cactagcaga	actatttagg
89761	aagggttaatc	tagctgggag	tataattagg	ggactcctga	ctactgcaa	agagaattcca
89821	agtgcacaggt	tgagcgtgag	aaagagagaa	tgcaatcctg	actacactga	gggtgtaagg
89881	aatggagaat	gaggaaagtgg	gagaggctgt	ggaaacagct	ctttcaggaa	gaatagccat
89941	caaggtaaaa	gctggaaagg	gatataactt	gaagaaagta	gattttatga	agctgaccct
90001	cacttgaaga	tgtgcaacgt	aaacgggagg	aatattgtag	acaatgaaga	gcaaagagtc
90061	ggaggaagca	ctgattttcg	gccttcgtat	tggaaagtcag	aagcagcagc	agctcctcgg
90121	tggtgggggtg	gaggtgggga	ggaaagaata	aatgttgaaa	aagataacat	gagatatgtg
90181	gtttattatc	attgtgaaac	aatgatggga	agcaaataac	atacatatta	gaaatattaa
90241	tcattttcata	tattaaaaat	ttcagttttc	tcaaacctga	ttgtagaatt	tatgtgtggg
90301	taataataca	aaagaaagaa	aaagctatgc	acgaagatgt	tcattgtagt	gttattttaa
90361	atggtaaaaat	gtaaaaaaaa	aactctagatt	tttaaccaaa	ggataaagat	aatttgggtt
90421	ggcaccctact	gaattaaaag	cctcacaaac	tatttgaata	gaagaggcac	ataaatttat
90481	gacatggaaa	ttcctacaga	aaaaagaggc	tgctagaaat	aaacataatt	ctgctctgaa
90541	ctgcaagacc	accactaggc	ctcaataaca	attatcacaa	caataatctt	gagtatcttc
90601	acagtcaatc	ctccgggcta	ccctgggatac	cactttgtag	atcaggaaac	aggctcaggg
90661	agattcaata	atttaccocaa	ggtcacaaat	ccaattattt	agggagtgg	tatttcaagg
90721	caactgtgct	ttgctctaca	gcctttgatc	ttaatgacct	tgctgttctc	cccatcctca
90781	acaaccagtt	cttcagcca	gctataaaaa	cagcattaat	caaaccagtt	tttgacatga
90841	cattgacaaa	gaaacatatg	tatttcactt	taactggttt	tgcttagaca	taaacatatt
90901	ctccatattt	gttaccatca	aatttgtatt	ctacgaaaag	tgatcatgat	tagtttacta
90961	tttccattag	gaaaagtgtt	gaatgaatat	aataacctgaa	gattacttgt	attttctctg
91021	gtgccacaat	ttggagagga	aaaaaaaaacc	ctggcatcta	ttattttatga	acaaaaccat
91081	aggctactta	atacaaaagt	tactggcaga	gtcttaattg	gacacatttt	ttaggatatg
91141	atccatgaaa	atgtaaaacca	gacaccttaa	ttgtgttttag	ccttcattac	cagcaatatt
91201	tttctctgca	gtgatgggaa	agaaatagaa	ttaattatca	caaacaccca	gataattatg
91261	tttgaaagct	gtaaaacaaa	tgtgcacatt	atgtaccctg	agaaattctg	ttaaaattgtc
91321	tttgcaccag	aagacatttg	attaacacat	ttttatttat	tttgcttgaa	aatacatatt
91381	ctaggaagaa	gaaattacct	tcagtttttc	ttcgagctct	gtgagggact	cacataattc
91441	agtcacagat	tcaagaacct	ctttgtgttt	tgctactatt	ttctcaatat	atttctgtcc
91501	ttcttccaaa	cctggggagg	agaagatga	aactagtgtt	aaagggtcaa	tttttagcaa
91561	gaagaaaggt	ccagggtataa	attcatctcc	ctgtccagtg	taagggtcta	taaattgtaa
91621	gttcttaata	aatatttgct	gaagagataa	ataaatgaat	aaagacaagt	ttctaaaagc
91681	tagatattct	aggaaaatga	ttacatttgc	tgtaccacgc	cacttgcag	taacctaaat
91741	aatgttgcta	catgaatagt	cttaaagctc	aattctcctt	agtttttctt	gttcaaaaaca
91801	ttcattgggt	cctctctgct	tagaagagaa	taaattcctc	aggatggcat	tcaagtcctc
91861	tccataacat	ggcttcaatc	tgccctctcc	aaatgtatgt	cactctagtt	ctctcctgta
91921	ttttatctcc	agccaaatgg	aaccagcaac	tcctccctga	agatccacac	agcagctgag
91981	tattccttcc	tctaccagga	ctactgtccc	tccactctca	atttctgctg	tcaaaatata

FIGURE 5-Y

92041	acctactcctt	taaggtccac	ctgaaatgcc	aacattttctg	tgaagatatt	cttaatcctt
92101	tccaactggg	tttctctcta	tatatgttaa	taaaaatagc	taccatgtag	cacatgctta
92161	ttatttgcct	gtgcctaagc	actgtataac	cattgctcaa	tgtaatcctt	ggatagatWc
92221	tactactatc	cacatttttac	aaatgaggaa	tgtgatgctc	aaaagatcct	cttgccctcg
92281	catagtgtct	cgcgcctgta	atccgagcac	tttgggagac	cgaggtgggc	agatcacttg
92341	aggtcaggag	ttcgagacca	gcctgaccaa	catagtgaaa	ccccatctct	actaaaaata
92401	caaaaattaa	cctggtgtgg	tggcacatgc	ctgtgatctc	agctactcgg	gaggctgagg
92461	caggagaatc	acttgaaccc	gggaggtgga	ggtttcagtg	aaccgagatc	atgccactgc
92521	actccagcct	gggtgacaaa	gcaagacttt	gtctcaaaaa	aaaaaaaaaa	aaaaggactt
92581	cttttaggtga	cccagacaat	aaatggggga	acaaggattt	gaaccagaa	ctatctgact
92641	ctacacccta	ggccaagatt	gtatcacaca	ttgttatggg	ctgaactatg	tcccccatc
92701	ctgccaaagt	catatgttga	agtcaccaat	cccagtacgt	cagaatgtaa	ctgtatttgg
92761	aaatgagatc	tttaaagagg	tggttaaatt	aaaatgaggc	cattgggatg	gggcgcta
92821	ccaatgtgac	tgtgtccctt	acaagaagag	ggagagacac	caggggcatg	tgtgtgcaga
92881	gggatgacca	cgtgaagagg	cagcaaggga	tcagccatct	gcaagccaag	cagagtggcc
92941	tgagatgaaa	tcaaccctgc	tggcatcttc	atcttgact	tccagacctc	agaagtgtga
93001	gaaaagaagt	ttctgttgaa	gccaccagtg	cagtggattt	ttgttacggc	agccctagca
93061	aacaagcaca	aacattttat	gtccttctca	ctccattttac	cataccatga	cttcaaggac
93121	tagactgtgg	tctcttgaat	ggaggaaacta	ggtcttaatt	gtctttataa	cagccacagc
93181	tcttagtaga	taacagggtat	gcacaaattt	gtttgagata	attttttgca	tgaaaattct
93241	gagttcagta	atgcttgagt	agcttgcaag	agttgataca	atcttaaagt	gcctcccttg
93301	atgcaaat	taaaaaatat	atagcttccc	taccaaacag	acggagactc	atgtcattca
93361	tttactcatt	cagtgtattca	tttattttatc	aaatatttgt	taagcagttg	gtatgtgcca
93421	ttagacagtg	aactaacaag	caaaatcgct	cctcaaatac	agcttacact	ctggtaagga
93481	aagtcaggca	acagacaaat	acctatataa	aatgtcagtt	ggtgataagt	gccaggaata
93541	taaacaaagc	cagatgcagg	atcttgcagg	acgggaaggg	aatttaactt	tttagggctt
93601	ttgtcagcac	ttctcatgct	ctgagattga	ataggcactg	atccaggcac	aaatacagtg
93661	aaaaaaatat	actttcctca	agttttatggg	tagtagagaa	gaccaatagg	tattttact
93721	acaacgtaaa	aagttcaatc	gtggaggaaa	catatatcag	gctatgggag	cagagtgtct
93781	ccaaaatatt	tagtgcactc	acacggtaac	tccagcaaga	agatgtcacc	ttagtttcca
93841	ttaatTTTTc	aatccatatt	ttattattttt	tatgtttcta	tccttttctt	ctggaatatt
93901	atgaataatt	cattctcaac	aatttaagta	gtatactaca	aaatttatgg	ctctccatgg
93961	atagtgtttc	atgtttataag	agaaaataacc	tggcagcagc	catgggcagg	caaatataagc
94021	attttgtacc	aactgttgtg	tcttctttct	gggctgcatt	tgccctggta	ctgggaatta
94081	ctctgggtct	cacaggaccg	ataccaggga	attcatggaa	cttattcctc	agaaccctca
94141	agaactatca	tcctccatgg	adttcttaaa	tggggggcct	cttttaggag	gaaggatctc
94201	tcaggctgac	atgacattat	ctttcctagt	catggaagag	aggaaagcag	aacttgtaaa
94261	atggcaattt	gagttctccc	atttattcca	caagtgagag	gaaagtgaag	gagaattttc
94321	caggctctttc	tcaaatatgt	gagccaaaag	cctcatagaa	aggagaggac	tgagacttc
94381	agtcttagct	ttatgtcttc	ttaaagtatt	actgaaattt	tgtatgtttt	tcaaggaatc
94441	actctagtgg	aaattagatt	ttgtttgttt	gtttgtttat	ataagctgag	tattgttctg
94501	gtgttatattc	cctagagatg	aacaacaggg	atggaggaga	aaagagaata	gagaaggaag
94561	gcttacacaa	agtaggtaaa	aatctgcagg	cttcatctgc	tgtcagaaat	tcctccctct
94621	gttcctctgt	tgctttccct	ggctgtgggc	tcttaccttg	aacattttcc	ctgaatacac
94681	tgggtgtgctg	aggaccctga	ggacttgcca	cactcttgct	gtctactgga	ttaggctcag
94741	tatagatttg	ttcaatggcc	aatcactgga	tatcttaaaa	gagatctcac	catataagtg
94801	ctgagcaagg	tcagtggcct	cctgaatcct	ttcttcttgc	tgccgcaactg	aggggtgcaat
94861	aaacttatta	aactgctggt	ggagaatttt	cacagcttcc	ttgtcttgc	actctgtgga
94921	atattttcca	actcttacaa	ctgtggcact	tgcatcttcg	tacaaaaaat	gacactaaat
94981	ttaaattggga	taaagcacag	atgaaagaaa	taccatcctt	ctaaagtctt	taattttgac
95041	cagtgaagta	tcaaatTTTa	attccctcaa	cttaatgttc	acattggcct	gaactttcta
95101	agtcataata	aagaaaaatat	taaaacatga	tcgtatttcta	cagcacttaa	atgcttagcag
95161	cagaaataaa	tacaaatgtg	aaaatatgta	taaataaaac	tataagaaag	taaaaatatg
95221	aaaatatatt	tgattctcct	accttcttag	gtttgcctaa	aatataattc	ctaagaggaa
95281	tgttgagac	ttataagaac	aggcaggata	aaaagcatct	ggcactaaaa	agaatccaaa
95341	tacatgctaa	atggcaagaa	aaaagccaaa	tgttcacaa	ccagcataaa	gaattgatat
95401	cattaatcat	acactgctaa	agtattgcct	gatgaatact	ctaataaata	aattatcttt
95461	gaagaataag	atttagttta	tgaatgggaa	aatatcatct	aacaaatagc	atttcacctt
95521	tgcttagtag	aaaatgggta	tagtttccaa	acacagtgga	gaatgagaca	gtttctcatt
95581	aaaaataact	gtggctgggc	gtgggtggctc	acgcctgtaa	tcccagcact	ttgggaggcc
95641	gaggcaggcg	gatcacgagg	tcaggagatc	gagaccatcc	tggctaacac	ggtgaaaccc
95701	catctctact	aaaagtacaa	aaaagtggcc	gggcgtgggtg	gtgggcgcct	gtgagccag
95761	ctactcgga	ggctgaggca	ggagaatggg	gtgaacccgg	gaggcagagc	ttgcagttag
95821	tcgagatcac	gtcactgcac	tccagcctgg	gaaacagagc	gacactccat	ctcaaaaata

FIGURE 5-Z

```
95881 aataaataaa taaataactg tgatggaagg aatgtctgac tcaggcctga agcacttatg
95941 caggggtgaga aatagaaaca catgactctg ttagaagttg gttttaaata agtgccacaa
96001 agggaccaca aacttataca tcatatgtag aagactgac attttgattc tccttaatct
96061 ggtgttaaat ctaaaaactc agctgcatta gtggtaaaga cgttctgtat ctcaaacaat
96121 aatgggcaac aaagaacact caagaacttc aagtgcagaa tttcttcaat acaaagtgtt
96181 caaacaataa ctttaacttg ccaaatttca tatattttat gtatactcta ccatttatct
96241 tcttgacagt aataaaaagaa aacaccaata acaacttttt gtagctgaaa aatcacagta
96301 tcacttttta aaataaatat tttcaagttc tgtgaaataa ataaaccatt ctgagcattt
96361 taaacagata tccagcagtg aacataattt catgataatt aaacatcttc atctgatgag
96421 gttatggaga aacaggaact ctcacacatt gccagtaaat tagtaaagac ttttctcaag
96481 agaaattgac caataaaatc aaagacctta taatattcat ccccttaggt ccagcaattc
96541 tatttcagag aattatccta aggaaaaaaaa atcatgaaaa ggagcatgWt acatgaatat
96601 aatgagaata acagctaatt caacattgct ttaaagttgc aaaatgattt ttgaaaacaa
96661 cattacaaca tggataccac tgcaaaaaga gaatacctct
```

FIGURE 6-A

Ensembl GP6 transcript
ENST00000310373

ATGTCTCCATCCCCGACCGCCCTCTTCTGTCTTGGGCTGTGTCTGGGGCGTGTGCCAGCG
CAGAGTGGACCGCTCCCCAAGCCCTCCCTCCAGGCTCTGCCCAGCTCCCTGGTGCCCTG
GAGAAGCCAGTGACCTCCGGTGCCAGGGACCTCCGGGCGTGGACCTGTACCGCCTGGAG
AAGCTGAGTTCCAGCAGGTACCAGGATCAGGCAGTCCTCTTCATCCCGGCCATGAAGAGA
AGTCTGGCTGGACGCTACCGCTGCTCCTACCAGAACGGAAGCCTCTGGTCCCTGCCCAGC
GACCAGCTGGAGCTCGTTGCCACGGGAGTTTGTGCCAAACCCTCGCTCTCAGCCCAGCCC
GGCCCGGCGGTGTCTCAGGAGGGGACGTAACCCTACAGTGTCTCAGACTCGGTATGGCTTT
GACCAATTTGCTCTGTACAAGGAAGGGGACCTGCGCCCTACAAGAATCCCGAGAGATGG
TACAGGGCTAGTTTCCCATCATCACGGTGACCGCCGCCACAGCGGAACCTACCGATGC
TACAGCTTCTCCAGCAGGGACCCATACCTGTGGTCTCAGCCCCCAGCGACCCCCCTGGAGCTT
GTGGTCACAGGAACCTCTGTGACCCCCAGCCGGTTACCAACAGAACCACTTCCCCGTA
GCAGAATTCTCAGAAGCCACCGCTGAACGTGACCGTCTCATTCACAAACGAAGTCTTCACA
ACTGAGACTTCTAGGAGTATCACCGCCAGTCCAAAGGAGTCAGACTCTCCAGCTGGTGAG
TCCTGCCCCGCCAGTACTACACCAAGGGCAACCTGGTCCGGATATGCCTCGGGGCTGTGAT
CCTAATAATCCTGGCGGGGTTTCTGGCAGAGGACTGGCACAGCCGGAGGAAGCGCCTGCG
GCACAGGGGCGAGGGCTGTGCAGAGGCCGCTTCCGCCCCCTCCCGCCCCCTCCCGCTGACCCG
GAAATCAAACGGGGGTCTCAGGATGGAGGCCGACAGGATGTTACAGCCGCGGGTTATGTTT
ATGACCGCTGAACCCAGGCACGGTCGTATCCAAGGGAGGGATCATGGCATGGGAGGCGA
CTCAAAGACTGGCGTGTGTGGAGCGTGGAAGCAGGAGGGCAGAGGCTACAGCTGTGGAAA
CGAGGCCATGCTGCCTCCTCTGGTGTTCATCAGGGAGCCGTTCCGGCCAGTGTCTGTCT
GTCTGTCTGCCTCTCTGTCTGAGGGCACCTCCATTTGGGATGGAAGGAATCTGTGGAGA
CCCCATCCTCCTCCCTGCACACTGTGGATGACATGGTACCCTGGCTGGACCACATACTGG
CCTCTTTCTTCAACCTCTCTAATATGGGCTCCAGACGGATCTCTAAGGTTCCCAGCTCTC
AGGGTTGACTCTGTTCATCCTCTGTGCAAAATCCTCCCGTGCTTCCCTTTGGCCCTCTG
TGCTCTTGCTGGTTTTTCCCAGAACTCTCACCCCTCACTCCATCTCCCACTGCGGTCTA
ACAAATCTCCTTTCGTCTCTCAGAACGGGTCTTGACAGGCAGTTTGGGTATGTCATTATT
TTCCTTAGTGTAAGTAACTAGCACGTTGCCCGCTTCCCTTCACATTAGAAAAACAAGATCAGC
CTGTGCAACATGGTGAAACCTCATCTCTACCAACAAAACAAAAAACAAAAAATTAGCC
AGGTGTGGTGGTGATCCCTATACTCCAGCAACTCAGGGGGCTGAGGTGGGAGAATGGC
TTGAGCCTGGGAGGCAGAGGTTGCAGTGAGCTGAGATCACACCACTGCACTCTAGCTCGG
GTGACGAAGCCTGACTTTGTCTCAAAAAATACAGGGATGAATATGTCAATTACCCTGATT
TGA

FIGURE 6-B

Ensembl - Q9HCN7 transcript sequence
ENST00000333884

ATGTCTCCATCCCCGACCGCCCTCTTCTGTCTTGGGCTGTGTCTGGGGCGTGTGCCAGCG
CAGAGTGGACCGCTCCCCAAGCCCTCCCTCCAGGCTCTGCCCAGCTCCCTGGTGCCCTG
GAGAAGCCAGTGACCTCCGGTGCCAGGGACCTCCGGGCGTGGACCTGTACCGCTGGAG
AAGCTGAGTTCCAGCAGGTACCAGGATCAGGCAGTCCTCTTCATCCCGGCCATGAAGAGA
AGTCTGGCTGGACGCTACCGCTGCTCCTACCAGAACGGAAGCCTCTGGTCCCTGCCCAGC
GACCAGCTGGAGCTCGTTGCCACGGGAGTTTTTGCCTAAACCCCTCGCTCTCAGCCCAGCCC
GGCCCGCGGTGTCTGTCAGGAGGGGACGTAACCCTACAGTGTCTCAGACTCGGTATGGCTTT
GACCAATTTGCTCTGTACAAGGAAGGGGACCCTGCGCCCTACAAGAATCCCGAGAGATGG
TACAGGGCTAGTTTTTCCCATCATCACGGTGACCGCCGCCACAGCGGAACCTACCGATGC
TACAGCTTCTCCAGCAGGGACCCATACCTGTGGTCAGCCCCCAGCGACCCCCCTGGAGCTT
GTGGTCACAGAATTCTCAGAAGCCACCGCTGAAGTACCGTCTCATTACAAAACGAAGTC
TTCACAACTGAGACTTCTAGGAGTATCACCGCCAGTCCAAAGGAGTCAGACTCTCCAGCT
GGTCCTGCCCCGCCAGTACTACACCAAGGGCAACCTGGTCCGGATATGCCTCGGGGCTGTG
ATCCTAATAATCCTGGCGGGGTTTTCTGGCAGAGGACTGGCACAGCCGGAGGAAGCGCCTG
CGGCACAGGGGCAGGGCTGTGCAGAGGCCGCTTCCGCCCCCTCCCGCCCCCTCCCGCTGACC
CGGAAATCAAACGGGGGTCTCAGGATGGAGGCCGACAGGATGTTACAGCCGCGGGTTATGT
TCATGA

FIGURE 6-C

NCBI - GP6 transcript sequence
NM_016363

mRNA seq

ACAGAGCTCAGGACAGGGCTGAGGAACCATGTCTCCATCCCCGACCGCCCTCTTCTGTCTTGGGCTGTGT
CTGGGGCGTGTGCCAGCGCAGAGTGGACCGCTCCCCAAGCCCTCCCTCCAGGCTCTGCCAGCTCCCTGG
TGCCCCCTGGAGAAGCCAGTGACCCTCCGGTGCCAGGGACCTCCGGGCGTGGACCTGTACCGCCTGGAGAA
GCTGAGTTCCAGCAGGTACCAGGATCAGGCAGTCCTCTTCATCCCGGCCATGAAGAGAAGTCTGGCTGGA
CGCTACCGCTGCTCCTACCAGAACGGAAGCCTCTGGTCCCTGCCAGCGACCAGCTGGAGCTCGTTGCCA
CGGGAGTTTTTGGCAAACCCCTCGCTCTCAGCCCAGCCCCGGCCCCGGCGGTGTCTGTCAGGAGGGGACGTAAC
CCTACAGTGTCAAGTCTGGTATGGCTTTGACCAATTTGCTCTGTACAAGGAAGGGGACCCTGCGCCCTAC
AAGAATCCCGAGAGATGGTACCGGGCTAGTTTCCCCATCATCACGGTGACCGCCGCCACAGCGGAACCT
ACCGATGCTACAGCTTCTCAGCAGGGACCCATACCTGTGGTCCGCCCCCAGCGACCCCTGGAGCTTGT
GGTCACAGGAACCTCTGTGACCCCCAGCCGGTTACCAACAGAACCACCTTCCTCGGTAGCAGAATTCTCA
GAAGCCACCGCTGAAGTACCGTCTCATTACAAACAAAGTCTTCACAACTGAGACTTCTAGGAGTATCA
CCACCAAGTCCAAAGGAGTCAAGTCTCAGCTGGTCCCTGCCCGCCAGTACTACCAAGGGCAACCTGGT
CCGGATATGCCTCGGGGCTGTGATCCTAATAATCCTGGCGGGGTTCTGGCAGAGGACTGGCACAGCCGG
AGGAAGCGCCTGCGGCACAGGGGCAGGGCTGTGCAGAGGCCGCTTCCGCCCCCTCCCGCCCCCTCCCGCAGA
CCCGGAAATCACACGGGGGTGAGGATGGAGCCGACAGGATGTTACAGCCGCGGGTTATGTTTCATGACC
GCTGAACCCACAGGCACGGTCTGATCCAAGGGAGGGATCATGGCATGGGAGGCGACTCAAAGACTGGCGTG
TGTGGAGCGTGGAAGCAGGAGGGCAGAGGCTACAGCTGTGGAACGAGGCCATGCTGCCTCCTCCTGGT
TTCCATCAGGGAGCCGTTCCGGCCAGTGTCTGTCTGTCTGTCTGCCTCTCTGTCTGAGGGCACCCCTCCATT
TGGGATGGAAGGAATCTGTGGAGACCCATCCTCCTCCCTGCACACTGTGGATGACATGGTACCCTGGCT
GGACCACATACTGGCCTCTTTCTTCAACCTCTCTAATATGGGCTCCAGACGGATCTCTAAGGTTCCAGC
TCTCAGGGTTGACTCTGTTCCATCCTCTGTGCAAAATCCTCCTGTGCTTCCCTTTGGCCCTCTGTGCTCT
TGTCTGGTTTTTCCCAGAACTCTCACCCCTCACTCCATCTCCCACTGCGGTCTAACAAATCTCCTTTTCT
CTCTCAGAACGGGTCTTGCAGGCAGTTTGGGTATGTATTCTTTCTTTAGTGTAAGTCTAGCACGTTG
CCCGCTTCCCTTACATTAGAAAACAAGATCAGCCTGTGCAACATGGTGAAACCTCATCTCTACCAACAA
AACAAAAAACACAAAAATTAGCCAGGTGTGGTGGTGCATCCCTATACTCCAGCAACTCGGGGGGGCTGA
GGTGGGAGAATGGCTTGAGCCTGGGAGGCAGAGGTGTCAGTGAGCTGAGATCACACCACTGCACTCTAGC
TCGGGTGACGAAGCCTGACCTTGTCTCAAAAAATACAGGGATGAATATGTCAATTACCCTGATTTGATCA
TAGCACGTTGTATACATGTACTGCAATATTGCTGTCCACCCCATAAATATGTACAATTATGTATACATTT
TTAAATCATAAAAATAAGATAATGCACCGTCTCCACCCCTCTCATATTTACTTTCTGAAGGAAATGTTA
GGTCTTCTCAAGGTAAAGTTCTATATTTATATAGCGTTTAGGCATTTCTTGACCATCTAATGAGTGATAA
AACTGTACCACTGGGCCAAGTGCAGTGGATCATGTCTGTAATCCTAGCACTGTGGGAGGCCAAGGCAGGA
GGATCGCTTGAGCCAGGAGTTCAAGACCAGCCTGGGCAACATAGTGAGACCCCATCTCTACTTAAATA
AAGAAGTAAAAATTGTTTTAAAA

FIGURE 7-A

NM_002290 [gi:9845494] Homo sapiens laminin, alpha 4 (LAMA4), mRNA

agaaggtaaaaagggagtggtgagaatgaatgtgagaaggaagccaggacagcgcaggtcccaggtcccgaacggcca
gggagaggaggtggcctagcgtggcggggctcaccccaatccgtctgccttttgatgccgtactctgctggttgcg
cagccacctcgggatactgcacacggagagggagggaaaaataagcgaggcaccgcccgcaccacgcgggagacctacgg
agaccacagcgcggcggagccctggaagagcactactggatgtcagcggagaaaatggctttgagctcagcctggcgct
cggttctgcctctgtggctcctctggagcgctgcctgctcccgcgcgcgctccggggacgacaacgccttttcctttt
gacattgaaggagctcagcgggtggcaggcaagaccgcctgagacgagcgaaccccgcgtggctctgggacgcct
gccgcctgcggccgagaaaatgcaatgctggattctttcacaccctgtcgggagaatgtgtgccctgcgactgtaatg
gcaattccaacgagtggttggacggctcaggatactgtgtgcactgccagcggaaacacaacaggagcactgtgaa
aagtgtctggatggttatatcggagattccatcaggggagcaccccaattctgccagcgcgtgccctgtcccctgcc
ccacttggccaattttgcagaatcctgctataggaaaaatggagctgttcgggtgcatttgtaacgaaaattatgctg
gacctaactgtgaaagatgtgctcccgggttactatggaaaccccttactcatttgaagcacctgtaagaaatgtgac
tgacgtggaaattcagatcccaacctgatctttgaagattgtgatgaagtcactggccagtgtaggaattgcttacg
caacaccaccggattcaagtgtgaacggttgcgctcctggctactatggggacgccaggatagccaagaactgtgcag
tgtgcaactgcgggggagggcccatgtgacagtgtaaccggagagaatgcttggagaagaggttttgaaacccctacaggc
tgtgataagtgcgtctgggacctgactgatgactgcggttagcagcgtctccatcgagggaaggcaaatccgggggt
gctgagcgtatcctctggggcgcgcgctcataggcacgtgaatgaaatcaacgccaccatctacctctcaaaacaa
aattgtcagaaagagaaaaccaatacgccttaagaaagatacaaatcaacaatgctgagaacacgatgaaaagcctt
ctgtctgacgtagaggaattagttgaaaaggaaaatcaagcctccagaaaaggacaacttggtcagaaggaaagcat
ggacaccattaaccacgcaagtcagctggttagagcaagcccatgatatgagggataaaaatccaagagatcaacaaca
agatgctctattatggggaagagcatgaacttagcccaaggaaatctctgagaagctggtgttggcccagaagatg
cttgaagagattagaagccgtcaaccatttttcacccaacgggagctcgtggatgaggaggcagatgaggcttacga
actactgagccaggctgagagctggcagcggctgcacaatgagaccgcactctgtttcctgtcgtcctggagcagc
tggatgactacaatgctaagttgtcagatctccaggaagcacttgaccaggcccttaaccatgtcagggatgccgaa
gacatgaacaggggccacagcagccaggcagcgggaccatgagaacaacaggaaagagtgagggaacaaaatggaagt
ggtgaacatgtctctgagcacatctgcggactctctgacaacacctcgtctaactctttcagaacttgatgatataa
taaagaatgcgtcagggaatttatgcagaaatagatggagccaaaagtgaactacaagtaaaaactatctaacctaatg
aacctcagccatgatttagtccaagaagctattgaccatgcacaggaccttcaacaagaagctaatgaattgagcag
gaagttgcacagttcagatatgaacgggctggtacagaaggctttggatgcatcaaatgtctatgaaaatattgtta
attatgttagtgaaagccaatgaaacagcagaatttgctttgaacaccactgaccgaatttatgatgcggtgagtgagg
attgatactcaaatcatttaccataaagatgaaagtgagaacctcctcaatcaagccagagaaactgcaagcaaggc
agagtctagcagtgatgaagcagtggtgacactagcaggcgtgtgggtggagccctagcaaggaaaagtgccttta
aaaccagactcagtgatgccgttaagcaactacaagcagcagagagaggggatgccagcagcgcctggggcagctct
agactgatcaccgaggaagccaacagcagcagatggaggtgagcagggccactgccccatggccaacatctaac
caactggtcacagaatcttcaacattttgactctctgtcttacaacactgcagtgaaactctgctagggatgcagtaa
gaaatctgaccgaggttgctccctcagctcctggatcagcttcgtacggttgagcagaagcgacctgcaagcaacggt
tctgccagcatccagaggatccgagagctcattgctcagaccagaagtgttgccagcaagatccaagtctccatgat
gtttgatggccagtcagctgtggaagtgcactcgagaaccagtatggatgacttaaaggccttcacgtctctgagcc
tgtacatgaaacccctgtgaagcggccggaactgaccgagactgcagatcagtttatcctgtacctcggaagcaaa
aacgccaanaaagagtatatgggtcttgcaatcaaaaatgataatctggtatacgtctataatttgggaactaaaga
tgtggagattcccctggactccaagcccgtcagttcctggcctgcttacttcagcattgtcaagattgaaaggggtgg
gaaaacatggaaaggtgtttttaacagtcaggagtcctaaagtagcacagcagaggaaggttcattaaaaaggggaa
ttttcgggagatgactctctgctggacctggacctgaggacacagtgttttatgttggtggagtgccctccaactt
caagctccctaccagcttaaacctgcctggctttgttggtgcctggaactggccactttgaataatgatgtgatca
gcttgtaactttaagcacatctataatatggacctccacatcagtgccatgtgcccgagataagctggccttc
actcagagtcgggctgccagttacttcttcgatggctccggttatgccgtggtgagagacatcacaaggagaggga
atttggtcaggtgactcgctttgacatagaagttcgaacaccagctgacaacggccttattctcctgatggtcaatg
gaagtatgttttcagactggaaatgcgcaatggttacctacatgtgttctatgattttggattcagcagtgccgt
gtgcatcttgaagatacgttaaagaaagctcaaattaatgatgcaaaaatccatgagatctcaatcatttaccacaa
tgataagaaaatgatcttggtagttgacagaaggcatgtcaagagcatggataatgaaaagatgaaaatacctttta
cagatatatacattggaggagctcctccagaaatcttacaatccaggccctcagagcacacctcccctagatatac
aacttcagaggatgcataagggttccagttccaaaagaaggacttcaatttactggagcagacagaaacccctggg
agttggttatggatgccagaagactcacttatatctcgcagagcatatttcaatggacagagcttcattgcttcaa
ttcagaaaatatctttctttgatggctttgaaggaggttttaatttccgaacattacaaccaaatgggttactatc
tattatgcttcagggtcagacgtgttctccatctcactggataatggtactgtcatcatggatgtaaggggaatcaa
agttcagtcagtagataagcagtaaatgatgggtgtcccacttcgtcattagctctgtctcaccacaagatatg

FIGURE 7-B

aactgatagtagataaaaagcagagttgggagtaagaatcctaccaaagggaaaatagaacagacacaagcaagtga
aagaagttttacttcggtgggtcaccaatcagtgctcagtatgctaatttcactggctgcataagtaatgcctactt
taccaggggtggatagagatgtggaggttgaagatttccaacggtatactgaaaaggtccacacttctctttatgagt
gtcccatagagtcttcaccattgtttctcctccataaaaaaggaaaaaatttatccaagcctaaagcaagtcagaat
aaaaaggaggaggaaaagtaaaagatgcaccttcatgggatcctgttgctctgaaactcccagagcggaatactccaag
aaactctcattgccacctttccaacagccctagagcaatagagcacgcctatcaatatggaggaacagccaacagcc
gccaagagtttgaacacttaaaaggagattttgggtgccaaatctcagttttccattcgtctgagaactcgttctctcc
catggcatgatcttctatgtctcagatcaagaagagaatgacttcatgactctatttttggcccatggccgcttggt
ttacatgtttaatgtttggtcacaaaaaactgaagattagaagccaggagaaatacaatgatggcctgtggcatgatg
tgatatttattcagagaaaggagcagtgggcgactggtaattgatggctctccgagtcctagaagaaagtcttctcct
actgaagctacctggaaaatcaagggtcccatttatttgggaggtgtggctcctggaaaggctgtgaaaaatgttca
gattaactccatctacagttttagtggctgtctcagcaatctccagctcaatggggcctccatcacctctgcttctc
agacattcagtgtagcccttgctttgaaggcccatggaaacaggaacttacttttcaacagaaggaggatacgtg
gttctagatgaatctttcaatattggattgaagtttgaaattgcatttgaagtcctgcccagaagcagttccggaac
cctggtccacggccacagtggtcaatggggagtagcctaaatgttcacatgaaaaatggacaggtcatagtgaagtca
ataatggcatcagagatttttccacctcagtaaacaccaagcagagtcctctgtgatggcagatggcacagaattaca
gttatttagagatttcaatgtggttcagttggatgtggactctgaagtgaacctatgtggttggaacctgaatccaaa
accaattgatcacaggagcctgtgtttgttgagggtgttccagaatctctactgacaccacgcttggccccagca
aacccttcacagggtgcatacgccactttgtgattgatggacaccagtgagcttcagtaaagcagccctggtcagc
ggcgccgtaagcatcaactcctgtccagcagcctgacatgacagagcacagctgcccatacaaaagtcttttagag
cactgaaagaaacacaaagccagccaggaggaacagtaactcttcttcgggtggaagctttcatcgagttgaacag
gacttaaacgaatcatcagggaccggatatttcttatttctcatttggattcttaaccttgaatccaaagtgtctgc
aatggacaacaattgaaggagaggcaaaacttacttgtattgagagcacacgcaattcctactggtgaaattactgtt
tctgtttctaataaaaatagaagggttccaaataaacacttgacacatttttgaagtgcggttagattctcagatt
cacctttcttcagggaagataaactttcaatctatataaaaaatctctgtcctaaaactacctttctttattttgaag
agacttactaacttacatataatctaaattagatgatagatttcttttttagcccttttgtttggtctatcagtataa
gaagaatatttttaggtttatagctgaagttatcaaggtttaataaagtaaatttctaaca

FIGURE 8

NM_001819 [gi:4502806] Homo sapiens chromogranin B (secretogranin 1) (CHGB), mRNA

```
ccaggaggcacgctgggttttccggggccgctccatcgcgcttctcctcgcgctcgcttctccggtccagccgcca
tcttcctttccgcacaggggcccgcgagcggggcccagcagccaacgctgcttctcagcctcctgggagccgtgggg
ctggcggctgtcaattccatgccagtgataaacaggaaccacaatgaaggaaatgggtgactcgctgcatcattgaggt
cctctcaaatgccttgtcgaagtccagcgctccacccatcacccctgagtgccgccaagtcctgaagacgagtagaa
aagacgtcaaagacaaagagacaactgaaaaacacaaagtttgaagtaagattgtaagagacccagctgat
gcctcggaagcccacgagtcctccagcaggggagaggcaggagccccaggggaggaggacatccaaggcccaacaaa
ggcagacacagagaaaatgggcagagggaggcgggcacagccgagagcgagcggtgagccccagtgaggcctctatc
cctccgacagccaagtctctgaagaagtgaagacacgccattctgagaagagccagagagaggtgaggaggaggag
gagggagagaactatcaaaaaggggagcgaggggaagatagcagtgaagagaaaacacctgaagagccaggagagac
acaaaacgcttttctcaatgaaagaaagcaggcttcagctataaaaaaaggaggattagtgccagatcggaacac
atgtgcccgggcattctcaggagaagacacatagccgagagaagagtagccaggagagtgaggagaggaggcagggagc
caggagaatcacccccaggagtcctaaaggccaaccccgaagccagggaagaatctgaggaaagtgaggaaagatgccac
ctctgaggtggacaaacgacgcacgagggcccagacaccaccacgggaggagcaggccccgacaggtcctctcaaggag
ggagtcttccctctgaggaaaagggacacccccaggaggaaatctgaggagtcaaacgtcagcatggccagtttaggg
gaaaagagggaccaccattcaacccactacagggcttcagaggaagaacctgaatatggagaagaaataaagggtta
tccaggcgtccaggcccctgaggacctggagtgggagcgctataggggcagaggaagtgaagaatacagggtccaa
gacctcagagtgaggagagttgggatgaggaggacaagagaaaactaccccagcttagagcttgataagatggcacat
ggatatggtgaagaaagtgaggaagagaggggacctgagccgggaaaggagcgccatcacagaggcaggggaggggga
gccacgtgcctatttcatgtctgacaccagagaagagaaaaggttcttgggtgaaggacaccaccgtgtccaagaaa
accagatggacaaggcaaggaggcatccacaaggtgcgtggaaagagctggacagaaattatctcaactacggtgag
gaaggagccccagggaagtggcagcagcagggagacctgcaggacactaaagaaaacagggaggaagctaggtttca
agataaacaatatagctcccatcacacagctgaaaagaggaagagattaggggaactgttcaaccatactacgacc
ctctccagtggaagagcagccattttgaaagaagagacaacatgaatgacaattttctcgagggtgaggaggaaaat
gagctgaccttgaaacgagaagaatttcttcccagaatacaactatgactgggtgggagaaaaagcccttctctgagga
tgtgaactgggggtatgagaagagaaaacctcgccaggttcccaagctggacctgaaaaggcaatatgacaggggtgg
cccaactggaccagctccttactacaggaagaagtcagctgagtttcagacttctatgattctgaggagccggtg
agcaccaccaggaggcagaaaaatgaaaaggacagggctgaccagacagtcctgacagaggacgagaaaaaagaact
cgaaaacttggctgcaatggatttggaactacagaagatagctgagaaattcagccaaaggggctgactgtcattgg
agcgggtgggcactgttaagaagcagccatcacatgatctgtttttcaccacttcactgaaagacaccatttatatac
ccaagggcagaaaagtagaacttactattcattaaatgtttgacacaattggaattgtctttaatttctgtcagaatg
ctattgaaaatgtgaattgcatgacttgtagcatattcttttctgcaaaatagacatattaacatgcttatgacaat
gactgtgctactgtcttttgaaaaatgtttgtctcagttggaataataaaaagattcacctgagacc
```

FIGURE 9

XM_294692 [gi29746497] Homo sapiens hypothetical LOC338749 (LOC338749), mRNA

ttcagacctgtagatgggctcttcttggacattctggagtccttgggggaaaggggaagtctgaagctcagttggcca
cctctgcataaacaataccgagagcactgcaagtggagcttggacaaggtctggaaaatcagccttcttctggatgc
ctccagcctttgctatcatctgcctaggaggttggaagttactcaagcgggtcaaggaaaagtcctatttctgttg
cagttgatttggagttatgtgatgtgtagcccatcagaagtaagcagaaaaactttgtgccgttttctatcctggaaa
taacacccccgccccctggccccgctgcattatcagccactcctcttctactcctttctatggctccagaagtgaaga
gctctgaaatgcctaaattgccagatgggaacatctttactgcttggagaaagccacacaggagttacctgacctgc
cttgatggtgacatgagtgagaaataaacctttgttgggtagactgct

FIGURE 10-A

Ensembl- GP6 protein sequence
ENSP00000308782

rs1671152 (G/T = K = T323K)
MSPSPALTALFCLGLCLGRVPAQSGPLPKPSLQALPSSLVPLEKPVTLRCQPPGVDLYRLE
KLSSSRYPQDQAVLFIPAMKRSLAGRYRCSYQNGSLWSLPSDQLELVATGVFAKPSLSAQF
GPAVSSGGDVTLCQTRYGFDQFALYKEGDPAPYKNPERWYRASFPITVTAAHSGTYRC
YSFSSRDYPYLWSAPSDPLELVVTGTSTVTPSRLPTEPPSPVAEFSEATAELTVSFTNEVFT
TETSRISITASPKESDPAGESCPPVLHQQPGPDMPRGCDPNNPGGVSGRGLAQPEEAPA
AQGGGCAEAASAPPAPPADPEIKRGSGWRPTGCSQPRVMFMTAEPQARSYPREGSWHGRR
LKDWRVWSVEAGGQRLQLWKRGHAASSWCSIREPFGQCLSVCLPLCLRAPSIWDGRNLWR
PHPPPCTLWMTWYPGWTTYWPLSSTSLIWAPDGSRLRFPALRVDSVPSSVQNPPVLPFGPL
CSCLVFPRNSHPHSISHCGLTNLLSSLRTGLAGSLGMSFIFLSVKLARCPLPFTLENKIS
LCNMVKPHLYQQNKKTQKLARCGGASLYSQQLRGLRWENGLSLGGRGCSELRSHHCTLAR
VTKPDFVSKNTGMNMSITLI

FIGURE 10-B

Ensembl - Q9HCN7 protein sequence
ENSP00000334552

rs1671152 (G/T = K = H304N)

321 aa

MSPSPTALFCLGLCLGRVPAQSGPLPKPSLQALPSSLVPLEKPVTLCQGPPGVDLYRLE
KLSSSRYQDQAVLFIPAMKRSLAGRYRCSYQNGSLWSLPSDQLELVATGVFAKPSLSAQF
GPAVSSGGDVTLCQTRYGFDQFALYKEGDPAPYKNPERWYRASFPITVTAAHSGTYRC
YSFSSRDPYLWSAPSDPLELVVTEFSEATAELTVSFTNEVFTTETSRSTITASPKESDSPA
GPARQYYTKGNLVRICLGAVILIILAGFLAEDWHSRRKRLRHRGRAVQRPLPPLPPLPLT
RKSNGGQDGGGRQDVHSRGLCS

FIGURE 10-C

NCBI - GP6 protein sequence
NP_057447

339 aa
MSPSP TALFCLGLCLGRVPAQSGPLPKPSLQALPSSLVPLEKPVTLRCQGPPGVDLYRLEKLSSSRYQDQ
AVLFIPAMKRSLAGRYRCSYQNGSLWSLPSDQLELVATGVFAKPSLSAQPGPAVSSGGDVTLCQTRYGF
DQFALYKEGDPAPYKNPERWYRASFP IITVTAAHSGTYRCYSFSSRDPYLWSAPSDPLELVVTGTSVTPS
RLPTEPPSSVAEFSEATAELTVSFTNKVFTTETSR SITTSPKESDSPAGPARQYYTKGNLVRICLGAVIL
IILAGFLAEDWHSRRKRLRHRGRAVQRPLPPLPPLPQTRKSHGGQDGGRQDVHSRGLCS

FIGURE 11-A

NP_002281 [gi:4504949] laminin, alpha 4 precursor

MALSSAWRSVLPLWLLWSAACSRAASGDDNAFPFDIEGSSAVGRQDPPETSE
PRVALGRLPPAAEKCNAAGFFHTLSGECVPCDCNGNSNECLDGSgyCVHCQRN
TTGEHCEKCLDGYIGDSIRGAPQFCQPCPCPLPHLANFAESCVRKNGAVRCIC
NENYAGPNCERCAPGYYGNNPLLIGSTCKKCDSCGNSDPNLFEDCDEVTGQC
RNCLRNTTGFKCERCAPGYYGDNARIAKNCAVCNCGGGPCDSVTGECLEEGFE
PPTGCDKCVWDLTDDLRLAALSIEEGKSGVLSVSSGAAHRHVNEINATIYLL
KTKLSERENQYALRKIQINNAENTMKSLLSDVEELVEKENQASRKQQLVQKE
SMDTINHASQLVEQAHDMDRKIQEINNKMPLYGEEHELSPKEISEKLVLAK
MLEEIRSROPFFTQRELVDEEADAEAYELLSQAESWQRLHNETRTLFPVVLEQL
DDYNAKLSDLQEALDQALNHVRDAEDMNRATAARQRDHEKQQERVREQM
EVVNMSLSTSADSLTTPRLTLSELDDIKNASGIYAEIDGAKSELQVKLSNLSN
LSHDLVQEAIQHAQDLQEQANELSRKLHSSDMNGLVQKALDASNVEYENIVN
YVSEANETAFAFNLTDDRIYDAVSGIDTQIIYHKDESENLLNQARELQAKAES
SSDEAVADTSRRVGGALARKSALKTRLSDAVKQLQAAERGDAQQRLGQSRL
ITEEANRTTMEVQQATAPMANNLTNWSQNLQHFDSSAYNTAVNSARDAVRN
LTEVVPQLLDQLRTVEQKRPASNVSASIQRIRELIAQTRSVASKIQVSMFMDG
QSAVEVHSRTSMDDLKFTSLSLYMKPPVKRPELTETADQFILYLGSKNAKK
EYMGLAIKNDNLVYVYNLGTKDVEIPLDSKPVSSWPAYFSIVKIERVGKHGK
VFLTVPSSLSTAEKFIKKGEFSGDDSLDLDPEDTVFYVGGVPSNFKLPTSLN
LPGFVGCLELATLNNDVISLYNFKHIYNMDPSTSVPCARDKLAFTQSRAASYF
FDGSGYAVVRDITRRGKFGQVTRFDIEVTRTPADNGLILLMVNGSMFFRLEMR
NGYLHVIFYDFGFSSGRVHLEDTLKKAQINDAKYHEISIIYHNDKKMILVVDNR
HVKSMNEKMKIPFTDIYIGGAPPEILQSRALRAHLPLDINFRGCMKGFQFQK
KDFNLLEQTETLGVGYGCPEDSLISRAYFNQGSFIASIQKISFFDGFEGGFNFR
TLQPNGLLFYYASGSDVFSISLDNGTVIMDVKGKIQSVQSDKQYNDGLSHFVIS
SVSPTRYELIVDKSRVGSKNPTKKGKIEQTQASEKKFYFGGSPISAQYANFTGCI
SNAYFTRVDRDVEVEDFQRYTEKVHTSLYECPIESSPLFLLHKKGKNLSKPKA
SQNKKGKSKDAPSWDPVALKLPERNTPRNSHCHLSNSPRAIEHAYQYGGTA
NSRQEFELKGDGFAKSQFSIRLRTRSSHGMIFYVSDQEENDFMTLFLAHGRL
VYMFNVGHKKLKIRSQEKYNDGLWHDVIFIRERSSGRLVIDGLRVLEESLPPT
EATWKIKGPIYLGGVAPGKAVKNVQINSIYSFSGCLSNLQLNGASITSASQTFS
VTPCFEGPMETGTYFSTEGGYVVLDESFNIGLKFEIAFEVRPRSSSGTLVHGHS
VNGEYLVNHMKNGQVIVKVNNGIRDFSTSVTPKQSLCDGRWHRITVIRDSNV
VQLDVDSEVNVHVGPLNPKPIDHREPVFVGGVPESLLTPRLAPSKPFTGCIRHF
VIDGHPVSFSKAALVSGAVSINSCPAA

FIGURE 11-B

LAMA4 Domains

Gene	Prediction Method	Accession ID	Domain Description	Start	End
LAMA4	Pfam	PF00053	Laminin_EGF	82	129
LAMA4	Pfam	PF00053	Laminin_EGF	132	184
LAMA4	Pfam	PF00053	Laminin_EGF	187	241
LAMA4	Pfam	PF06008	Laminin Coiled-coil I	297	555
LAMA4	Pfam	PF06009	Laminin Coiled-coil II	734	861
LAMA4	Pfam	PF00054	Laminin_G	1079	1213
LAMA4	Pfam	PF00054	Laminin_G	1499	1629
LAMA4	Pfam	PF00054	Laminin_G	1676	1804
LAMA4	prosite	PS00022	EGF_like	155	166
LAMA4	prosite	PS00225	Crystallin	1107	1122
LAMA4	prosite	PS01248	Laminin_EGF	98	132
LAMA4	prosite	PS01248	Laminin_EGF	155	189
LAMA4	prosite	PS01248	Laminin_EGF	209	243
LAMA4	pfscan	PS50027	Laminin_EGF	79	125
LAMA4	pfscan	PS50027	Laminin_EGF	129	181
LAMA4	pfscan	PS50027	Laminin_EGF	184	236

FIGURE 12

NP_0001810 [gi:4502807] chromogranin B precursor; Chromogranin B
(secretogranin B) [Homo sapiens]

MQPTLLLSLLGAVGLAAVNSMPVDNRNHNHNEGMMVTRCIIEVLSNALS~~SKSSAPPI~~
TPECRQVLKTSRKDVKDKETTENENTKFEVRLLRDPADASEAH~~ESSSRGEAG~~
APGEEDIQGPTKADTEKWAEGGGHSRERADEPQWSLYPSDSQVSEEVKTRHS
EKSQREDEEEEEGENYQKGERGEDSSEEKHLEEPGETQNAFLNERKQASAIKK
EELVARSETHAAGHSQEKTHSREKSSQESGEEAGSQENHPQESKGQPRSQEES
EEGEEDATSEVDKRRTRPRHHHGRSRPDRSSQGGSLPSEEKGHPQEESEESNV
SMASLGEKRDHHSTHYRASEEEPEYGEEIKGYPGVQAPEDLEWERYRGRGSE
EYRAPRPQSEESWDEEDKRNYPSELDKMAHGYGEESEEERGLEPGKGRHHR
GRGGEPRAYFMSDTREEKRFLGEGHHRVQENQMDKARRHPQGA WKELDRN
YLNYGEEGAPGKWQQQGD~~LQDT~~KENREEARFQDKQYSSHHTAEKRKRLGE
LFNPYYDPLQWKSSHFERRDNMNDNFLEGEENELTLNEKNFFPEYNYDWW
EKKPFSE~~DVN~~WGYEKRNLARVPKLDLKRQYDRVAQLDQLLHYRKKSAEFPD
FYDSEEPVSTHQEAENEKDRADQTVLTEDEKKELENLAAMDLELQKIAEKFS
QRG

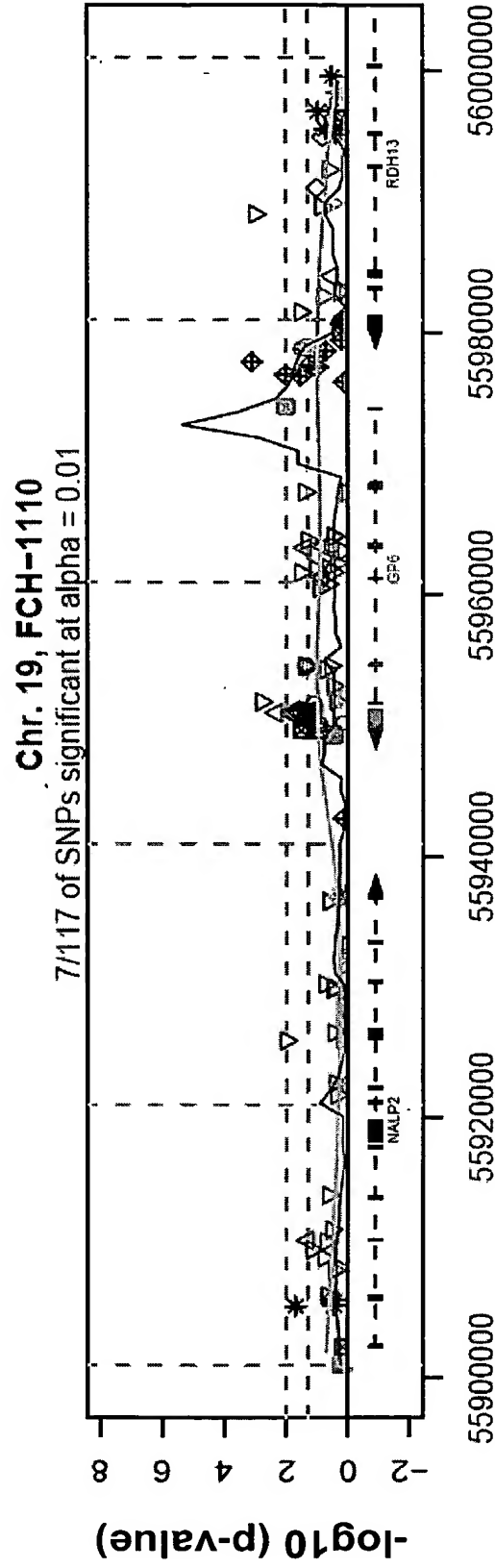
FIGURE 13

XP_294692 [gi:29746498] hypothetical protein XP_294692 [Homo sapiens]

MPPAFAIICLGGWKLLKRLKEKSLFLLQLIWSYVMCSPSEVSRKLCVFPYGN
NTPAPWPRCIISHSSSLLSMAPEVKSSSEMPKLPDGNIFTAWRKPHRSYLTCLG
W

FIGURE 14

GP6



Chromosome position

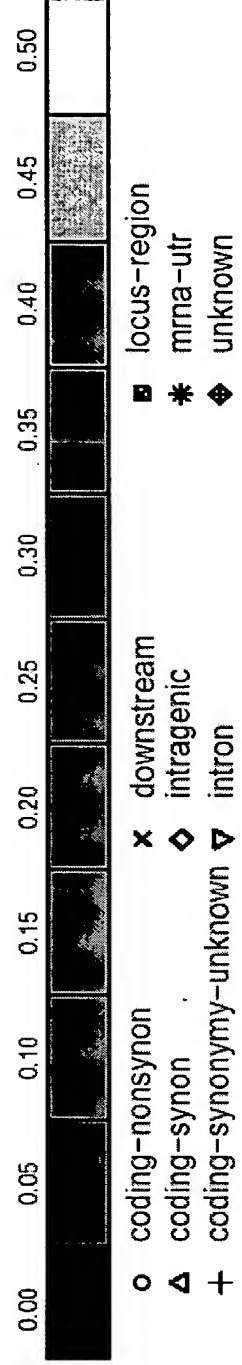
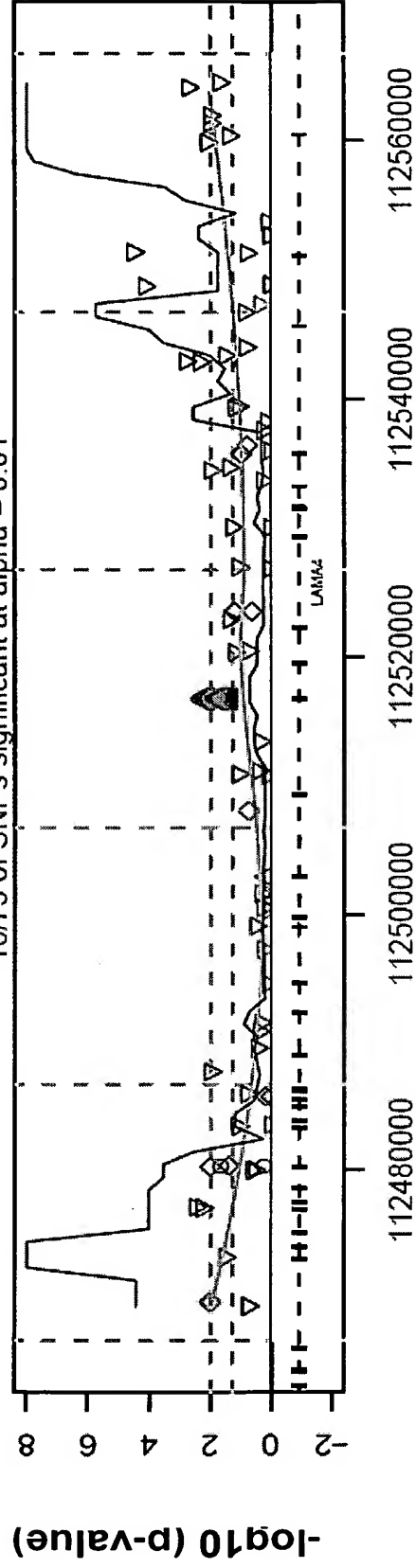


FIGURE 15

LAMA4

Chr. 6, GP06_122712853

16/75 of SNPs significant at $\alpha = 0.01$



Chromosome position

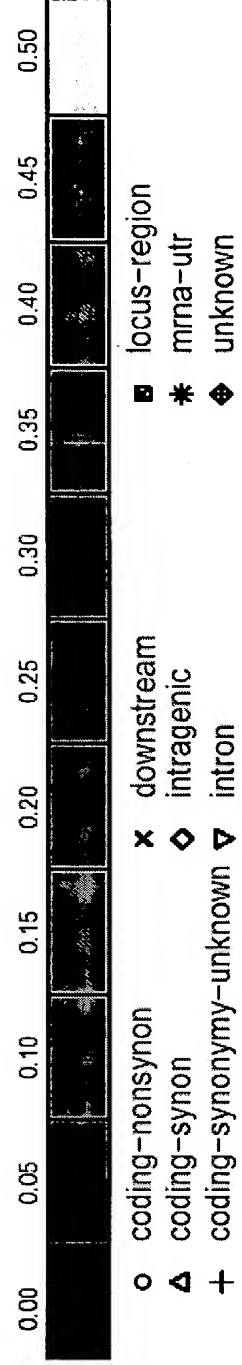
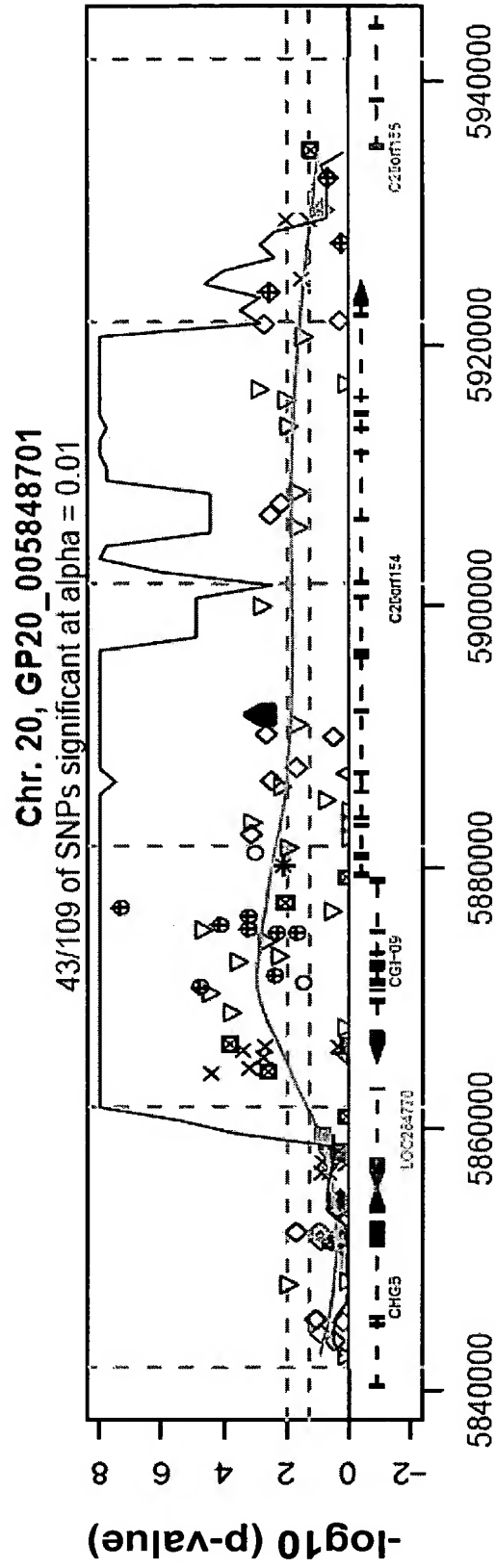


FIGURE 16

C20orf154 & CHGB Region



Chromosome position

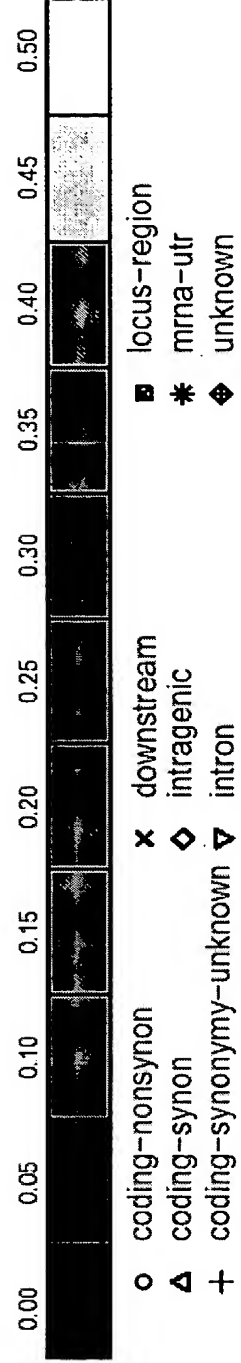
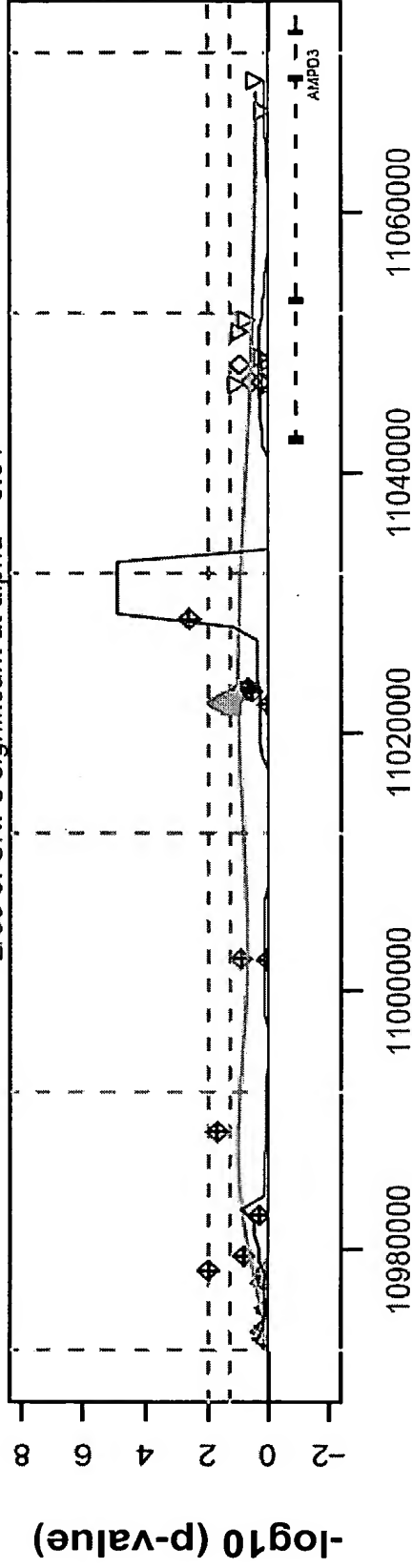


FIGURE 17

LOC338749

Chr. 11, GP11_009820423

2/39 of SNPs significant at $\alpha = 0.01$



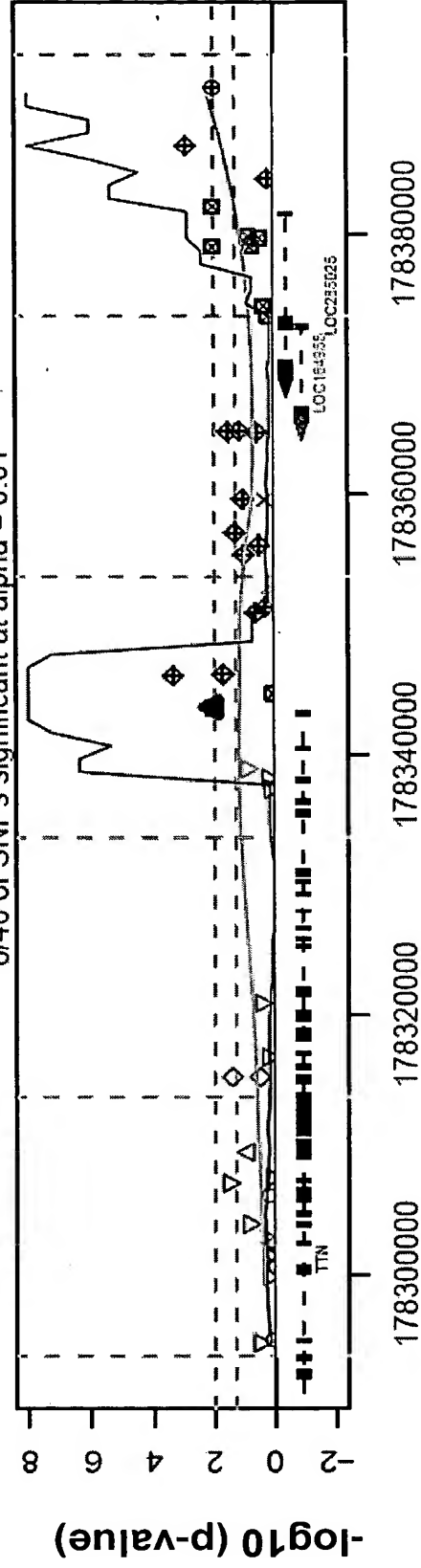
Chromosome position



FIGURE 18

TTN

Chr. 2, GP02_182455447
8/46 of SNPs significant at $\alpha = 0.01$



Chromosome position

